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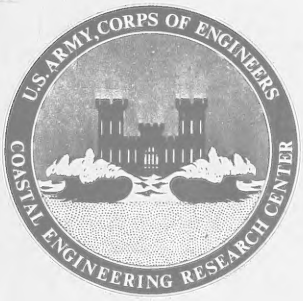
Groins : An Annotated Bibliography

by
J.H. Balsillie
and
R.O. Bruno

MISCELLANEOUS PAPER NO. 1—72
APRIL 1972



U. S. ARMY, CORPS OF ENGINEERS
COASTAL ENGINEERING
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ABSTRACT

A groin is a shore protective structure built (usually perpendicular to the shore) to trap littoral drift or to retard erosion of the shore. Considering all types of shore protective structures used by coastal engineers, the groin is one of the most controversial and most difficult to design. Because the functional and structural guidelines for design are incomplete, many groin installations fail to fulfill their intended purpose. CERC supports a continuing research program devoted to gaining a better understanding of groins. This bibliography evolved from the groin research program.

About 460 articles published since 1900 on groins and groin-type structures are presented in this bibliography. Annotations accompany each bibliographic entry where possible. Indexes of authors, titles, and subjects are included to aid the researcher. Unavailable literature such as foreign articles, although not annotated, are included as entries in both the annotated section and the indexes.

FOREWORD

This bibliography was compiled by J. H. Balsillie and R. O. Bruno under the general supervision of D. W. Berg, Chief, Evaluation Branch, and G. M. Watts, Chief, Engineering Development Division.

Indexes of the bibliography were automated by the use of a computer. Programs used were prepared by M. Keplinger of the National Bureau of Standards and B. R. Sims of the Coastal Engineering Research Center. Mr. Sims adapted these programs specifically for the compilation of this bibliography.

At the time of publication, Lieutenant Colonel Don S. McCoy was Director of CERC; Thorndike Saville, Jr. was Technical Director.

NOTE: Comments on this bibliography are invited. Readers who find omissions or errors are urged to submit their suggestions.

This report is published under authority of Public Law 166, 79th Congress, approved July 31, 1945, as supplemented by Public Law 172, 88th Congress, approved November 7, 1963.

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INTRODUCTION

Groins are shore protection structures, usually built perpendicular to the shore, that function to trap littoral drift or retard erosion of the shore. This annotated bibliography is intended to provide a ready source of published information on groins and groin-like structures.

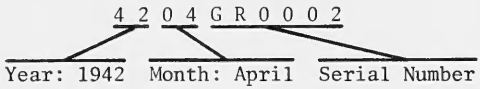
The Coastal Engineering Research Center (CERC) and its predecessor, the Beach Erosion Board, have for many years been investigating groins both in the field and laboratory. During the past several years, the emphasis placed on investigation of groins has increased. As a result, a study is now underway to determine functional and structural behavior of groins to improve guidelines and criteria for use in their design.

As part of this investigation, the available literature was reviewed. It became apparent that the results of this review would assist others; thus, this bibliography has been compiled and published.

463 articles, published since 1900, on groins and groin-like structures are referenced by this bibliography. Appropriate annotations are provided to assist the investigator. Additionally, cross-referenced indexes for author, title, and subject have been included to facilitate access to the annotated section.

USE OF BIBLIOGRAPHY

Each entry of the bibliography consists of a code number, title, author, source, annotation, and key word list. These entries appear in consecutive order of code numbers, the code number depending in part upon the year and month of publication, as:



Where the year or month of publication cannot be determined zeros are substituted.

For articles or reports which have been published the appropriate citation is given. At the end of the source citation, call numbers of those entries held in the CERC Library appear in parentheses.

Annotations are an integral part of this compilation. Even so, many articles, such as foreign and domestic articles that were unavailable to the authors or untranslated foreign articles have not been annotated. In some cases, the titles of foreign articles, have been translated to indicate the content of the article. U. S. Congress House Documents have not been annotated because of their similarity of

text, large number, and easy availability. All of this literature, however, is referenced in the annotated bibliography in correct sequence, and in the indexes under the appropriate headings. Notation for articles not annotated which appear in the indexes is as follows:

NA - BEACH EROSION AT SANTA BARBARA CALIFORNIA 3803GR0001

Special utility of the bibliography lies in its indexes. The author index is an alphabetical listing; the title index is an alphabetical listing of words taken out of context of the titles. To provide a subject index, key words were chosen; all articles were keyed to this listing. Before using the subject index the researcher should refer to the key-word list (page 199) to choose the subjects of interest.

In most cases the meanings of the key words are straightforward. However, to clarify any confusion that may result, a list of definitions for the key words follows the key word list (page 200).

"One Aspect of the Dynamics of a Coast Partly Protected by a Row of Groynes" 0000GR0001
Bakker, W. T., Unpublished Manuscript.
(TC337 .B168)

A mathematical theory is given about phenomena caused by groin construction. Onshore and offshore transport are considered, but not the influence of wave refraction and diffraction. Effects of groins found in this study are: (1) in the middle of the protected part of the coast the same processes occur as without groins, but slower; (2) there are edge effects at the ends of a system where much more accretion and erosion occur than without groins; and (3) the rate of effect of the system depends upon the spacing of the groins.

Key Words - Theory/Erosion/Accretion/System/Transport-normal/

"The Coastal Dynamics of Sand Waves and the Influence of Breakwaters and Groynes" 0000GR0002
Bakker, W. T., Unpublished Manuscript.
pp. 1-7. (V.F. 3249-a BAK)

At a coastline where littoral transport by waves prevails, progressive sand waves can exist, if there is a periodical varying disturbance at one point on the coast and the coastline is at rest at more than half a wavelength distance. These sand waves (or megaripples) move from the point of disturbance to the part of the coastline that is at rest, independent of the direction of the littoral transport. Wavelength increases with the period, but the velocity of propagation decreases. A groin reflects a part of the sand wave. The amplitude of the sand wave near the groin on the side of the disturbance increases; a decrease occurs on the other side of the groin.

Key Words - Theory/Impermeable/Erosion/Accretion/

"Influence of Protective Works on the Erosion of the West Coast of Sylt, North Sea Coast of Germany" 0000GR0003
Fischer, O., Translation, 12 pp. (TC273 .F9)

Measurements of the beach on the west coast of Sylt showed that groins and other existing protective structures were independent of subsequent successions of accretion and erosion. The author proposes that original studies maintained over a short period of time were applied to a long period and did not constitute a proper basis for conclusions for beach protection.

Key Words - Europe/Accretion/Erosion/1900-1949

"Model Tests of Beach Break at the End of Stabilized Coastal Beaches (Lee-Erosion)" 0000GR0004
Hansen, W., Proceedings of the Testing Institute of Hannover, Hannover, Germany, No. 10, pp. 86-119.

Key Words - Not Annotated/

"The Wosenitz Precast Permeable Groin" 0000GR0005
Wosenitz, W. B., The Permagroin Company, Inc., Dania, Florida.

This brochure states that the Wosenitz concrete permeable groin, precast with steel reinforcing rods, is specifically designed to assist in building up beaches to a gradual energy-absorbing slope which is the natural method of controlling erosion. Field examples are provided.

Key Words - Wosenitz/Concrete/Permeable/Steel/Piling/Structural-design/Const-procedure/Accretion/Field/Erosion/S. Atlantic/1965-1969/Patent/

"The Budd Horizontally Permeable Groin System for Beach Erosion Control and Rebuilding Sand Beaches" 0000GR0006
Anonymous, E. & E. Associates, Venice, Florida, 8 pp. (Brochure)

Brochure presents photographic coverage of Budd groins constructed in Florida, and shows their effects.

Key Words - Concrete/Budd/Permeable/Field/Photographic/System/Accretion/S. Atlantic/1960-1964/1965-1969/

"On the Length and the Internal Structure of Seashore Groins" 0000GR0007
Sato, S., Journal of Research, Public Works Research Institute, Vol. 1, No. 4.

Key Words - Not Annotated/

"The Principle of Increasing Permeability in Groin Construction" 0000GR0008
Wood, S. M., A Treatise on a Modern Method of Protecting Waterfront Property, Lake Bluff, Illinois, 3 pp. (TC330 .W879)

Author gives an introduction to use of groins. He says that the best groin design is that of increasing permeability seaward.

Key Words - Permeable/Misc-plan/Theory/

"Man Against the Sea: A Guide to Erosion Control" 0000GR0009
Anonymous, Makepeace Wood, Inc., The Islander Pub. Co., Anna Maria, Florida. (Brochure) (TC330 W879)

Structural design of S. M. Wood permeable groins is presented in this company brochure. Photographic coverage of various sites where Wood groins have been constructed is given.

Key Words - S. M. Wood/Permeable/Structural-design/S. Atlantic/ Misc-plan/Erosion/Accretion/

"The Protection and Improvement of Foreshores by the Utilization of Tidal and Wave Action" 0306GR0001
Allanson-Winn, R. G., Transactions of the American Society of Civil Engineers, Vol. 50, June, 1903, pp. 66-94

Case groins, constructed of timber, with a long, low design, and economical to build are discussed relative to groins of other designs. A field study is presented in favor of Case groins where the author states that an analogy of small obstructions (Case groins) and the multiplication of small results gradually brings about desired beach buildup.

Key Words - Timber/Long/Low/Economics/Europe/High/Scour/Erosion/ Accretion/Field/Case/Misc-plan/1900-1949/Impermeable/ System/Structural-design/

"Coast Erosion and Foreshore Protection" 0800GR0001
Owens, J. S., Case, G. O., Chapter 11,
St. Bride's Press, London, 1908.

Constructional details of various types of groins, jetties, seawalls, and bulkheads are given. Details about spacing, height, and desired effect of groins are discussed briefly.

Key Words - Low/Accretion/Structural-design/

"Coast Erosion and Protection on Long Island and New Jersey" 1508GR0001
Case, G. O., Engineering News, Engineering, Chemical & Marine Press Ltd., London, Vol. 74, No. 10, Sept., 1915, pp. 439-442
(V.F. 1350 8/19/15)

Failures of high groins and vertical bulkheads as coast protection works are discussed. Proper methods of design and construction of low groins which have proved successful and their application to construction in New Jersey and Long Island are presented.

Key Words - N. Atlantic/Long/Low/Concrete/Timber/Structural-design/Economics/Impermeable/High/

"Coney Island Public Beach and Boardwalk Improvement" 2300GR0001
Farley, P. P., The Municipal Engineers Journal, Fourth Quarterly Issue, 1923, 32 pp. (TC345 .N73F2)

As part of the Coney Island Improvement project during the early 1920's a system of high impermeable groins was constructed. The groins were not designed to accumulate sand but rather to retain the sand which was pumped between them, to reduce scour by confining the sand between the high barriers, and to break up the sea in time of storm.

Key Words - N. Atlantic/System/Misc-plan/Artificial-fill/Timber/Piling/Rubble-mound/High/Long/Impermeable/Scour/Field/Structural-design/1900-1949/

"Causes of Coast Erosion and Accretion" 2600GR0001
Case, G. O., The Surveyor, and Municipal and County Engineer, London, Vol. 69, No. 1777, 1926.

Key Words - Not Annotated/

"Sea Defence: Erosion and Protection on a Sandy Coast" 2712GR0001
Mobbs, S. W., The Surveyor, and Municipal and County Engineer, London, Dec., 1927. (V.F. 1339)

British (1927) methods for the construction of timber and concrete groins and their costs are presented.

Key Words - Europe/Timber/Impermeable/Concrete/Steel/Structural-design/Economics/1900-1949/Mobbs/Field/

"Tests with Scale Models to Determine the Effect of Currents and Breakers upon a Sandy Beach, and the Advantageous Installation of Groins" 2806GR0001
Kressner, B., Bautechnik, Berlin, Vol. 25, June, 1928. (Translation GC211 .K1)

A comprehensive research paper. Report deals with experiments concerning existing groin structures found along the German coastline. Groin models were used to experimentally find advantageous construction design. Length, spacing, accretion, leeward erosion due to coastal currents were qualitatively evaluated through experiments.

Key Words - Europe/Experimental/Model/Accretion/Erosion/Impermeable/Theory/

"Die Buhnenwirkung" 2806GR0002
Winkel, R., Die Bautechnik, Berlin, Vol. 6, No. 27, June, 1928. (V.F. 3100)

Translated Title: "The Action of Groins"

Key Words - Not Annotated/

"Detail of Concrete Block Used in Groins Constructed at Montecito, Calif." Leeds and Barnard, Feb., 1929, Consulting Engineers, Los Angeles, Calif. (V.F. 3101) 2902GR0001

Design plans for proposed concrete blocks that were used on the Montecito (Santa Barbara), California, groin project are presented.

Key Words - S. Pacific/Concrete/Geometric-shapes/Impermeable/

"The North Shore Versus Lake Michigan" Wood, S. M., A Treatise on Methods of Saving Lake Front Property, Lake Bluff, Illinois, 1930. (Brochure) (V.F. 3104) 3011GR0001

Book discusses in a non-technical manner the problem of lake front protection as it affects property owners along the North Shore of Lake Michigan. Fully illustrated; the book gives examples of poor groin construction as well as satisfactorily performing groin structures of different design.

Key Words - Permeable/S. M. Wood/High/Impermeable/Timber/Steel/ Short/Accretion/Misc-plan/Rubble-mound/Low/T-groin/ Long/Scour/Erosion/1900-1949/Great Lakes/Field/ Single/System/

"Report of Advisory Board on Beach Protection, Los Angeles County" Advisory Board on Beach Erosion, Dec., 1930, Los Angeles, Calif., 53 pp. 3012GR0001

Views by the Advisory Board are expressed about advantageous structural design of groins so that existing structures be made more effective and gradually build a uniform beach.

Key Words - Timber/Low/Scour/Accretion/Concrete/Steel/Piling/High/ System/Long/Short/Single/Erosion/1900-1949/Structural-design/

"Report to the Fifteenth International Congress of Navigation" 3100GR0001
Pala, F., and d'Arrige, A., Fifteenth International Congress of Navigation, Permanent International Association of Navigation Congresses, Brussels, 2nd Section - Ocean Navigation, 2nd Question, No. 79, 1931, 24 pp. (TC5 .In8n)

The theory and purpose of groins, their design, and examples are discussed in this report on coastal erosion and shore protective structures.

Key Words - Impermeable/Accretion/Single/System/Short/Timber/Theory/Field/Europe/1900-1949/Misc-plan/

"Report to the Fifteenth International Congress of Navigation" 3100GR0002
Schmidt, R., and Heiser, I., Fifteenth International Congress of Navigation, Permanent International Association of Navigation Congresses, Brussels, 2nd Section - Ocean Navigation, 2nd Question, No. 73, 1931, 31 pp. (TC5 .In8n)

The theory and purpose of groins, their design, and examples are presented in this report on coastal erosion and shore protection structures.

Key Words - Accretion/Europe/1900-1949/System/Structural-design/Misc-plan/Const-procedures/Single/Piling/Rubble-mound/Timber/Impermeable/Erosion/

"Sea Walls and Groins of Steel Sheeting Stabilize Miami Beach" 3105GR0001
Taylor, L. B., Engineering News-Record, McGraw-Hill Pub. Co., Vol. 106, No. 19, May 1931, pp. 760-762.

This article gives the plans, cost and performance of a groin that was constructed at Miami Beach. The steel groin consisted of Larsen steel sheetpiling.

Key Words - Const-procedure/Economics/Steel/Structural-design/Timber/Piles/Impermeable/

"Sand Movement and Beach Erosion" 3106GR0001
Dent, E. J., Civil Engineering, ASCE,
Vol. 1, No. 9, June, 1931, pp. 821-826.
(V.F. 297)

Economic and esthetic solutions for problems of shore protection are discussed. High and low groins are discussed in light of the effect desired under specific beach and littoral conditions.

Key Words - High/Long/Single/System/Low/Economics/Misc-plan/N. Atlantic/ 1900-1949/

"Fort Fisher, N. C." 3201GR0001
U. S. Army, Corps of Engineers, House
Document No. 204, 72d Congress, 1st Session,
Jan., 1932.

Key Words - House Document/Not Annotated/

"Protection of Coasts Against the Sea, with or without Preponderating Coastal Drift of Materials" 3202GR0001
Coen-Cagli, M. E., World Ports, American
Shore and Beach Preservation Association,
Vol. 20, No. 4, Feb., 1932, pp. 286-293

The design and method of construction of groins for the protection of sand and pebble beaches must be preceded by a careful study of the locality and all forces acting on the coast. Groin height, length, the terminal groin, and groin spacing are considered.

Key Words - Misc-plan/Structural-design/Accretion/Erosion/Terminal/ Single/System/Timber/Impermeable/1900-1949/

"Du-Plat-Taylor Adjustable Screw Pile Groynes" 3306GR0001
Anonymous, The Engineer, London, June, 1933,
4 pp. (TC257 .B1 3)

An adjustable screw pile groin was developed in England. The screw piles, 8 to 10 feet long, are tubular with iron screws cast on to them. The planks are held to the piles by retaining collars.

Slotted arrangement of bolt holes allows the planks to assume a considerable angle with the horizontal in the vertical plane. Advantages of these groins are cheapness, rapidity of construction, and facility of adjustment.

Key Words - Low/Timber/Du-Plat-Taylor/Structural-design/Impermeable/Adjustable/

"Art of Forming Protective Beaches" 3309GR001
Wood, S. M., U. S. Patent Office, Patent
No. 1,928,473, Sept., 1933, 3 pp.

This patent presents a permeable stone groin design by S. M. Wood.

Key Words - Structural-design/Great Lakes/System/Rubble-mound/Concrete/Permeable/Impermeable/Scour/Accretion/Patent/

"Groynes" 3400GR0001
Matthews, E. R., Coast Erosion and Protection,
3rd ed., Charles Griffin and Co., Ltd.,
London, 1934, 228 pp. (TC330 .M43)

Two chapters in this text deal with groins. Efficiency and cost of different groin designs as compared to that of Case-groins are given with reference to specific construction projects on the coast of Great Britain. The author gives a three-part presentation dealing with (1) high timber groins, (2) low timber groins, (3) concrete-block groins.

Key Words - Concrete/Timber/Misc-materials/Field/High/Low/Long/Structural-design/Case/System/1900-1949/Economics/Piling/Short/Impermeable/Europe/

"Wrightsville Beach, N. C." 3401GR0001
U. S. Army, Corps of Engineers, House Document
No. 218, 73d Congress, 2d Session, Jan., 1934.

Key Words - House Document/Not Annotated/

"Beach Erosion at Galveston, Tex." 3406GR0001

U. S. Army Corps of Engineers, House Document No. 400, 73d Congress, 2d Session, June, 1934.

Key Words - House Document/Not Annotated/

"Permeable Groins of Concrete Check Beach Erosion" 3500GR0001
Howard, E. A., Engineering News-Record, McGraw-Hill Pub. Co., Vol. 114, No. 17, 1935.

Key Words - Not Annotated/

"Beach Erosion at Folly Beach, S. C." 3404GR0001
U. S. Army Corps of Engineers, House Document No. 156, 74th Congress, 1st Session, Apr., 1935.

Key Words - House Document/Not Annotated/

"Jetty" 3505GR0001
Wood, S. M., U. S. Patent Office, Patent No. 2,000,312, May, 1935, 3 pp.

This patent presents a groin design which will provide outwardly increasing permeability. S. M. Wood groin designs are usually for Great Lakes use, but this design is recommended for ocean use.

Key Words - Patent/Structural-design/Permeable/Piling/Concrete/Timber/Steel/Const-procedure/Erosion/Scour/Accretion/

"Jetty" 3505GR0002
Wood, S. M., U. S. Patent Office, Patent No. 2,000,311, May, 1935, 4 pp.

An S. M. Wood groin design is presented in this patent. The design utilizes precast concrete units held by piling. Its characteristics also include permeability and use for lakeshore protection.

Key Words - Patent/Structural-design/Concrete/Const-procedure/
Timber/Piling/Steel/Permeable/

"Beach Erosion at Compo Beach, Westport, Conn." 3506GR0001
U. S. Army Corps of Engineers, House Document
No. 239, 74th Congress, 1st Session, June, 1935.

Key Words - House Document/Not Annotated/

"A New Method of Construction in Coast 3507GR0001
Erosion Control"
Wood, S. M., Bulletin of the Associated State
Engineering Societies, July, 1935.

Author discusses the inadequacies of impermeable groins and promotes the permeable concept for groin design.

Key Words - Concrete/Permeable/Impermeable/Accretion/High/Scour/

"Die Schutzbauten auf der Insel Borkum" 3512GR0001
Hibben, B., Bautechnik, Berlin, Vol. 13,
No. 53, Dec., 1935, pp. 691-712. (Translation,
V.F. 2023)

Construction, performance, maintenance, of various types of groins and seawalls, and a review of reef and inshore changes at Borkum Island are presented.

Key Words - Misc-plan/Structural-design/Maintenance/1900-1949/
System/Field/Piling/Timber/Steel/Const-procedure/
Economics/Rubble-mound/Erosion/Accretion/Impermeable/
Permeable/

"Reissue Patent No. 19,786" 3512GR0002
Wood, S. M., U. S. Patent Office, Dec. 1935.

Key Words - Not Annotated/

"Certain Points about Erosion, Costs, and Measures of Protection" 361GR0001
Beach, L. H., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. IV, No. 1, Jan., 1936, pp. 31-33 (TC330 .Am3)

Advantages of short groins are discussed. Short groins can always be extended. Permeable groins are held to be effective, but their cost, it is argued, is not economical.

Key Words - Short/Long/Permeable/Economics/

"Beach Erosion at Jacob Riis Park, Long Island, N. Y." 3601GR0002
U. S. Army Corps of Engineers, House Document No. 397, 74th Congress, 2nd Session, Jan., 1936.

Key Words - House Document/Not Annotated/

"Mesh Jetties" 3602GR0001
Herbest, T. R., Jr., Feb., 1936, The Consolidated Expanded Metal Company, Wheeling, West Virginia. (V.F. 66)

Blueprints show design of mesh groins (referred to in article as jetties) constructed of steel. Permeable groins consist of 9-foot sections, 10 inches in diameter. The blueprints are pilot plans for a project at Wheeling, West Virginia.

Key Words - Low/Steel/Permeable/N. Atlantic/1900-1949/Structural-design/Const-procedure/Misc-materials/Adjustable/

"Round-Table Discussion" 3604GR0001
Anonymous, Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 4, No. 2, Apr., 1936, pp. 55-56. (TC330. Am3)

Permeable steel groins are discussed in regard to construction, abrasion and corrosion, and performance.

Key Words - S. Atlantic/Concrete/Steel/Const-problems/Scour/System/Permeable/

"Jacob Riis Park" 3604GR0002
Anonymous, Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 6, No. 2, Apr., 1936, pp. 64-65. (TC330 .Am3)

A system of 24 groins was constructed, and attached to a bulkhead. The groins have been effective in preventing material changes, but their impounding capacity is practically exhausted. Further steps for beach protection are provided. One of these, groin extension, is evaluated.

Key Words - N. Atlantic/System/Economics/ERosion/1900-1949/

"Galveston Beach Construction" 3604GR0003
Anonymous, Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 4, No. 2, Apr., 1936, p. 66. (TC330 .Am3)

Initial plans and costs for a 10-element groin system near Galveston, Texas, are given.

Key Words - Texas Gulf/System/Economics/Misc-plan/

"Some Data on Beach Protection Works" 3605GR0001
Lipp, M. N., Civil Engineering, ASCE, Vol. 6, No. 5, May, 1936, pp. 291-295.

Describes various types of shore protection works. Deterioration of shore protection works along the Florida East Coast between Miami Beach and Palm Beach is reviewed. Included are granite jetties, bulkheads, and groins made of concrete, steel, and treated and untreated timber.

Key Words - Concrete/Steel/Timber/S. Atlantic/System/Rubble-mound/ Structural-design/

"Participation of Federal Relief Agencies in Beach Protection Projects" 3607GR0001
Thompson, S. G., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 4, No. 3, July, 1936, pp. 89-92. (TC330 .Am3)

Plans and costs of a groin system are presented for a section of the Georgia coastline.

Key Words - S. Atlantic/High/Low/Economics/Misc-plan/

"Investigations of Steel Sheet Piling" 3607GR0002
Rhodes, R. F., U. S. Army Corps of Engineers, Savannah District, Report to Beach Erosion Board, Unpublished, July, 1936, 59 pp. (TC685 .U5)

Report gives detailed data on the condition of sheet steel piling protection structures, including groins, constructed along the Florida coast. Design criteria and photographic coverage are included.

Key Words - Piling/Steel/S. Atlantic/Photographic/System/Short/High/Long/Low/Structural-design/Field/Const-problems/1900-1949/Impermeable/

"California's Beach Erosion and Development Problems" 3610GR0001
Leeds, C. T., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 4, No. 4, Oct., 1936, pp. 162-169. (TC330 .Am3)

Presented is a summary of the types of groins constructed along California's coastline. The author stresses that groin direction should be governed by prevailing wind direction.

Key Words - California/Timber/Short/High/Accretion/Erosion/Steel/Low/Concrete/Structural-design/Const-problems/Impermeable/

"Construction and Maintenance of the Public Beach at Rockaway Beach, Borough of Queens" 3610GR0002
Steiner, C. T., The Municipal Engineers Journal, Paper 181, Oct., 1936, pp. 107-122. (V.F. 3079)

To preserve the beach at Rockaway, it was realized that a comprehensive system of defense was necessary. Information gained from studies of the beach indicated that groins should be spaced about the same distance apart as their lengths, and a beach with about one-half this length could be maintained. Construction and design, cost, and success of groins as well as other protective structures are discussed.

Key Words - N. Atlantic/System/1900-1949/Structural-design/ Impermeable/Permeable/Economics/Field/Low/Erosion/ Accretion/Timber/Const-procedure/Const-problems/ Maintenance

"Report of the Foreshore Erosion Board" 3612GR0001
Green, H. J., ed., Dec., 1936, Government Printer, Melbourne, Australia. (V.F. 1341)

A comprehensive report on the problem of erosion in the vicinity of Port Phillip, Australia, this paper contains a section on groins dealing with their purpose, design, and construction.

Key Words - Australia/Accretion/Erosion/Concrete/Timber/Rubble-mound/ Scour/Permeable/Impermeable/Low/1900-1949/

"Beach Erosion at Manasquan Inlet, N. J., and Adjacent Beaches" 3701GR0001
U. S. Army Corps of Engineers, House Document No. 71, 75th Congress, 1st Session, Jan., 1937.

Key Words - House Document/Not Annotated/

"Coast Protection on the North Sea Coasts of Holland, France, Belgium and Germany" 3703GR0001
van der Burgt, J. H., The Royal Engineers Journal, The Institution of Royal Engineers, Chatham, England, Mar., 1937, 13 pp. (V.F. 1311)

Groins on the North Sea have in the past been built with materials found close-at-hand and without understanding the purpose served by each component part of the protective work. Design of existing groins and other protective structures, failure of designs, and a design proposal for groins are presented.

Key Words - Europe/Erosion/Structural-design/Impermeable/Permeable/ Piling/Rubble-mound/Shoaling/Misc-materials/Field/

"Beach Erosion at Hollywood Beach, Fla." 3705GR0001

U. S. Army Corps of Engineers, House Document No. 253, 75th Congress, 1st Session, May, 1937.

Key Words - House Document/Not Annotated/

"Round-Table Discussion of Shore Problems in Relation to Recreation" 3710GR0001
Anonymous, Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 5, No. 4, Oct., 1937, pp. 129-140. (TC330 .Am3)

Groin construction and effectiveness are presented. A discussion of permeable groins compared with low groins is given.

Key Words - Texas Gulf/System/Steel/Accretion/Long/Erosion/Permeable/Impermeable/Low/Piling/

"Jetty" 3711GR0001
Wood, S. M., U. S. Patent Office, Patent No. 2,099,249, Nov., 1937, 3 pp.

This patent presents an S. M. Wood groin design particularly adapted for ocean front protection, which offers permeability, and facilitates easy installation.

Key Words - Patent/Structural-design/Concrete/Timber/Piling/Permeable/Const-procedure/Scour/Accretion/

"Study of an Artificial Bathing Beach at Orchard Beach, Pelham Bay, N. Y." 3711GR0002
U. S. Army Corps of Engineers, House Document No. 450, 75th Congress, 2nd Session, Nov., 1937.

Key Words - House Document/Not Annotated/

"Report on Beach Erosion at Hollywood Beach, Florida" 3801GR0001
Anonymous, Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 6, No. 1, Jan., 1938, pp. 9-13. (TC330 .Am3)

A short statement giving 1938 conditions of a groin system built in 1927 and 1935 at Hollywood Beach, Florida, is presented with proposed future improvement recommendations and costs.

Key Words - 1900-1949/S. Atlantic/System/Timber/Economics/Steel/Piling/ Structural-design/Misc-plan/Impermeable/

"Report on Erosion at Manasquan Inlet, New Jersey, and Adjacent Beaches" 3801GR0002
Anonymous, Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 6, No. 1, Jan., 1938, pp. 13-18. (TC330 .Am3)

An example of a single steel sheet-pile groin constructed (1933) to check erosion is briefly noted. Recommendations were made for further groin construction.

Key Words - 1900-1949/Erosion/Single/Field/System/Economics/ N. Atlantic/Accretion/Impermeable/

"Beach Erosion at Willoughby Spit, Va." 3801GR0003
U. S. Army Corps of Engineers, House Document No. 482, 75th Congress, 3rd Session, Jan., 1938.

Key Words - House Document/Not Annotated/

"Beach Erosion at Santa Barbara, Calif." 3803GR0001
U. S. Army Corps of Engineers, House Document No. 552, 75th Congress, 3rd Session, Mar., 1938.

Key Words - House Document/Not Annotated/

"Erosion of Our Coastal Frontiers" 3804GR0001
Wood, S. M., Bulletin of the Associated State Engineering Societies, Apr., 1938, 32 pp. (TC330 .W879)

Design criteria and the effects gained are discussed in relation to permeable and impermeable groins. Field examples are given.

Key Words - Impermeable/Permeable/S. M. Wood/S. Atlantic/Great Lakes/ Accretion/Scour/High/Low/Misc-plan/System/Concrete/Timber/ N. Atlantic/Erosion/Long/Short/Theory/Field/

"Shore Protective Work at Winthrop, Massachusetts" 3806GR0001
Hale, R. K., Civil Engineering, ASCE, Vol. 8, No. 6, June, 1938, pp. 388-399. (TA1 .C582)

Article describes the seawall and groin system in use at Winthrop, Mass. since 1915. In 1938, neither the timber groins nor the concrete seawall had shown signs of deterioration. Other structures added to the original system since 1915 are described and the estimate advanced that 160,000 sq. ft. of beach area has been added since the construction of protective structures.

Key Words - Timber/Low/Accretion/N. Atlantic/Structural-design/ Field/1900-1949/

"Early Attempts at Inlet Construction on the Florida East Coast" 3807GR0001
Fineren, W. W., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 6, No. 3, July, 1938, p. 91. (TC330 .Am3)

Writer believes there is insufficient information with respect to the relation of groin length to width and spacing that will lead to permanency of protection, but he believes that in general, groins should be spaced closer than is the general practice. A Florida example is given.

Key Words - S. Atlantic/Short/System/Erosion/Accretion/Rubble-mound/ Misc-plan/Economics/

"Galveston Island Shoreline and the Protection of Galveston Beach" 3807GR0002
Washington, C. C., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 6, No. 3, July, 1938, pp. 105-108. (TC330 .Am3)

Erosion Board recommendations are given which include groin concentration, length, spacing, design, and cost.

Key Words - Texas Gulf/System/Steel/Low/Economics/Structural-design/ Impermeable/

"Shore Protective Work at Winthrop, Massachusetts" 3807GR0003

Hale, R. K., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 6, No. 3, July, 1938, pp. 92-94. (TC330 .Am3)

This article describes the seawall and groin system in use at Winthrop, Mass. since 1915. In 1938, neither timber groins nor concrete seawall showed signs of deterioration. Other structures added to the original system since 1915 are described and the estimate advanced that 160,000 sq. ft. of beach area has been added since the advent of beach protection.

Key Words - Timber/Accretion/N. Atlantic/Field/1900-1949/Structural-design/Low/Impermeable/

"Shorewood Protects Its Lake Front" 3807GR0004
Schmitt, H. A., The Municipality, League of Wisconsin Municipalities, July, 1938, pp. 143, 146. (V.F. 3080 12/38)

Previous groin construction and new construction of permeable groins, their cost, design, and construction procedure is discussed.

Key Words - Great Lakes/Economics/Scour/Erosion/1900-1949/Timber/Permeable/High/Long/Concrete/System/Field/Const-procedure/Structural-design/

"Protecting Galveston Beach" 3807GR0005
Washington, D. C., Civil Engineering, ASCE, Vol. 8, No. 7, July, 1938, pp. 461-462. (TA1 .C582)

Length, spacing, cost, and structural design of a groin system and accompanying seawall are given for the protection of Galveston's shoreline.

Key Words - Single/Timber/System/Economics/Artificial-fill/Steel/Impermeable/1900-1949/Texas Gulf/Structural-design/Misc-plan/Field/

"Shore Erosion and Cabbage Palmetto Groins at North Point, St. Augustine, Florida" 3811GR0001
Watkins, L. H., Nov., 1938, U. S. Army Corps of Engineers, Jacksonville District, Unpublished Report. (V.F. 3093a)

A letter and photographic review of erosion at North Point, Florida shows marked recession of the coastline that has accelerated since 1935. Four cabbage palmetto (timber) groins were constructed in July 1938. Subsequent investigations showed that the groins had no effect in preventing or retarding shore erosion.

Key Words - S. Atlantic/Field/Timber/Erosion/Misc-plan/Concrete/ Accretion/Impermeable/1900-1949/Photographic/Piling/ High/

"Effectiveness of Groins at Rockaway Beach, Long Island, New York" 3812GR0001
Hyde, J. F. C., Dec., 1938, U. S. Army Corps of Engineers, New York District, Unpublished Report. (V.F. 3081 12/38)

This letter to the Beach Erosion Board evaluates the performance and cost of permeable groin extension work on groins at Rockaway Beach, New York.

Key Words - Maintenance/Economics/1900-1949/N. Atlantic/Impermeable/ Piling/Permeable/Timber/S. M. Wood/Accretion/Scour/Erosion/ Field/

"Beach Erosion Studies" 3901GR0001
Brown, E. I., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 7, No. 1, Jan., 1939, pp. 3-23. (TC330 .Am3)

Design criteria of groins is discussed in detail. The author recommends low, impermeable groins. Examples of systems at Palm Beach and St. Augustine and their effects are given.

Key Words - Structural-design/Piling/Accretion/Artificial-fill/ Impermeable/Low/S. Atlantic/Steel/Timber/Rubble-mound/ Scour/Permeable/System/Terminal/1900-1949/

"Shore Protection by Permeable Groins" 3907GR0001
Boase, A. J., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 7, No. 3, July, 1939, pp. 105-108.

Permeable S. M. Wood and Concrete pile groins are described with examples given from the Great Lakes. Groin construction and manufacture of concrete blocks are presented in detail along with a section on

merits of permeable groins.

Key Words - Permeable/Great Lakes/Scour/Erosion/Low/Concrete/Piling/
S. M. Wood/System/Structural-design/Economics/

"Effectiveness of Permeable Type Groins Used for Beach Protection at Shorewood, Wisc. and Other Cities Along the West Shore of Lake Michigan" 3911GR0001
Holcombe, W. H., Nov., 1939, U. S. Army Corps of Engineers, Milwaukee, Wisconsin, Unpublished Report. (V.F. 3080 12/38)

Two letters and photographs review 1939 conditions and effectiveness of permeable groins on Lake Michigan.

Key Words - Great Lakes/Misc-plan/Structural-design/Permeable/System/
1900-1949/Steel/Piling/Concrete/Timber/Impermeable/Long/
Short/High/Rubble-mound/Field/

"Erosion and Palmetto Groins at North Point, St. Augustine, Florida" 3912GR0001
Simkins, T. D., Dec., 1939, U. S. Army Corps of Engineers, Jacksonville District, Unpublished Report. (V.F. 3093b)

Letters and photographs give the history of erosion at North Point, where the North Point, St. Augustine shore has been receding since 1935. Four cabbage palmetto (timber) groins constructed in 1937 and a stone groin built in 1889 are evaluated.

Key Words - S. Atlantic/Photographic/1900-1949/Low/Impermeable/High/
Timber/Erosion/Field/Single/System/Concrete/Piling/

"Beach Erosion Studies" 4000GR0001
Brown, E. I., Transactions of the American Society of Civil Engineers, Vol. 105, 1940, pp. 869-918

Items of information considered necessary in a comprehensive beach erosion study, the reasons for desiring each particular item, and some general observations on design of protective works are offered. The presentation is made for two reasons: (1) that engineers interested in beach protection may have the advantage of experience gained by the

Beach Erosion Board about factors involved in a study of beach erosion; and (2) that the items of information now believed best suited to the purpose by the Board may be subject to full and free discussion by all engineers interested.

Key Words - Erosion/Field/Concrete/Steel/California/Misc-plan/Notched/ Impermeable/

"Beach Erosion Studies" 4000GR0002
Brown, E. I., Transactions of the American Society of Civil Engineers, Vol. 105, Paper No. 2076, 1940, pp. 869-918.

Groin protection is recommended where storm waves of ordinary magnitude occur and where the adjoining land is of low relief. Design criteria of groins are discussed.

Key Words - Structural-design/Artificial-fill/Timber/Piling/Impermeable/ Misc-plan/System/

"The Prevention of Coast Erosion" 4000GR0003
Du-Plat-Taylor, F.M.G., Journal of the Institution of Civil Engineers, London, Vol. 15, 1940-1941, pp. 53-60.

Measures to stop erosion, including seawalls, groins, and vegetation are discussed. Author gives data concerning the design, setting, and legal aspects of groin construction.

Key Words - Du-Plat-Taylor/Adjustable/Timber/Low/High/Concrete/Rubble-mound/Misc-plan/Legal/Europe/

"Permeable Groins at Kenosha, Wisconsin" 4001GR0001
Holcombe, W. H., Jan., 1940, U. S. Army Corps of Engineers, Milwaukee, Wisconsin, Unpublished Report. (V.F. 3080 12/39)

Letters to the Beach Erosion Board evaluate permeable groin construction and its effectiveness as a shore protection method on the Lake Michigan shore at Kenosha, Wisconsin.

Key Words - Long/Short/Permeable/Great Lakes/1900-1949/Piling/Concrete/ Scour/Impermeable/Rubble-mound/Erosion/Accretion/S. M. Wood/ Field/

"Curved Jetties, Sea Walls, Bulkheads and Retaining Walls" 4001GR0002
Milliken, F., Milliken Method of Preventing the Erosion of Shore Fronts, and at the Same Time Building Out the Beach Making Nature Work Against Itself, Brochure, Published by F. Milliken, 44 West 44th St., New York, Jan., 1940, 3 pp. (V.F. 3105)

A type of groin-like structure is discussed. Design sketches patented by Milliken are given. However, no examples of practical applications or tests are provided.

Key Words - Theory/Milliken/Accretion/Erosion/Structural-design/

"Hawk's Nest Beach, Connecticut" 4001GR0003
Anonymous, Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 8, No. 1, Jan., 1940, pp. 14-19. (TC330 .Am3)

As part of a beach protection scheme at Hawk's Nest Beach, Connecticut, the U. S. Army Beach Erosion Board recommended that six rubble-mound groins be built. History of erosion and previously constructed protective structures is given.

Key Words - Impermeable/Artificial-fill/Rubble-mound/System/Economics/ Timber Erosion/Accretion/Misc-plan/1900-1949/N. Atlantic/

"Beach Erosion Study, Orange County, Calif." 4002GR0001
U. S. Army Corps of Engineers, House Document No. 637, 76th Congress, 3rd Session, Feb., 1940.

Key Words - House Document/Not Annotated/

"Report on Shore Erosion at Tilghman Point, Md." 4006GR0001
Dent, E. J., July, 1940, 7 pp., Unpublished Manuscript. (V.F. 1813)

Report describes the extent of erosion at Tilghman Point, and proposes, as one measure, that inexpensive rip-rap groins be used to retard erosion.

Key Words - Rubble-mound/N. Atlantic/System/Erosion/Accretion/ Impermeable/

"Erosion Control at Wrightsville Beach" 4010GR0001
Brown, E. I., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 8, No. 4, Oct., 1940, pp. 123-124

Hydraulic fill and a groin system were planned for an erosion control project at Wrightsville Beach, North Carolina. Design specifications, cost, and construction procedures are presented.

Key Words - Economics/S. Atlantic/Artificial-fill/Timber/Structural-design/Piling/1900-1949/Const-procedures/Impermeable/

"Beach Erosion Study, St. Simon Island, Ga." 4010GR0002
U. S. Army Corps of Engineers, House Document No. 820, 76th Congress, 3rd Session, June 1940.

Key Words - House Document/Not Annotated/

"Report on St. Simon Island Studies" 4101GR0001
Anonymous, Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 9, No. 1, Jan., 1941, pp. 18-23, 26-28. (TC330 .Am3)

The U. S. Army Beach Erosion Board recommended three plans for the protection of St. Simons Island, Georgia. All three plans included the construction of groins; singly and in a system, permeable and impermeable. Overall plans, projected effects, and the cost of each plan are given.

Key Words - S. Atlantic/Artificial-fill/Economics/Steel/Impermeable/Timber/Permeable/Single/System/Misc-plan/Piling/1900-1949/

"The Prevention of Coast Erosion" 4104GR0001
Du-Plat-Taylor, F. M. G., The Dock and Harbour Authority, London, Vol. 21, No. 241, Apr., 1941, pp. 125-127. (TC1 .D6)

Author discusses seawalls and groins, and states that seawalls can be successful only where the beach is maintained by groins. Design and maintenance of groins is discussed.

Key Words - Europe/Concrete/Timber/High/Low/Adjustable/Erosion/System/Structural-design/Maintenance/Impermeable/

"Coast Erosion" 4110GR0001
Keay, T. B., The Dock and Harbour Authority,
London, Vol. 21, No. 252, Oct., 1941,
pp. 241-245.

This article was written because of increasing concern with coastal erosion in Great Britain. It discusses the preferred design, use, and spacing of groins, and the design and effectiveness of other types of protective structures.

Key Words - System/High/Low/Misc-plan/Timber/Europe/Structural-design/
Long/Concrete/Du-Plat-Taylor/Adjustable/1900-1949/
Impermeable/Erosion/

"Beach Erosion Study, Coronado, Calif." 4202GR0001
U. S. Army Corps of Engineers, House
Document No. 636, 77th Congress, 2nd Session,
Feb., 1942.

Key Words - House Document/Not Annotated/

"Coast Erosion in Great Britain" 4204GR0001
Keay, T. B., Shore and Beach, American Shore
and Beach Preservation Assoc., Vol. 10, No. 1,
Apr., 1942, pp. 3-5, 22-25. (TC330 .Am3)

Groin systems, different types of designs and use are discussed along with other types of shore protection structures.

Key Words - Europe/Terminal/System/High/Low/Misc-plan/Long/Concrete/
Impermeable/Permeable/Case/Du-Plat/Taylor/Timber/Adjustable/
Misc-materials/Structural-design/1900-1949/

"Beach Protection Measures" 4206GR0001
Hall, W. C., The Military Engineer, Society
of American Military Engineers, Vol. 34,
No. 200, June, 1942, pp. 292-296.

Various types of shore protection structures, including groins, are reviewed. Different designs, their effects, and field examples are given.

Key Words - Artificial-fill/Low/System/High/Long/Impermeable/Misc-plan/
L-groins/T-groins/Steel/Piling/Permeable/Great Lakes/
California/S. Atlantic/N. Atlantic/Scour/Field/

"Beach Protection Measures" 4210GR0001
Hall, W. C., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 10, No. 2, Oct., 1942, pp. 60-64. (TC330 .Am3)

The function, design, and application of groins and other protective works are discussed. Examples are cited.

Key Words - High/Low/T-groins/L-groins/Steel/Piling/Scour/Permeable/ Great Lakes/Impermeable/Structural-design/Theory/ California/S. Atlantic/

"The Relation of the Action of Waves and Currents on Headlands to the Control of Shore Erosion by Groins" 4300GR0001
Evans, O. F., Proceedings of the Oklahoma Academy of Science, 1943, pp. 9-13.

Contrary to general opinion, the author believes that beach drifting is a more important source of sediment transportation by waves and currents than are littoral currents. Groins are discussed and improvements are noted. A permeable groin is suggested which eliminates the need for expensive preliminary surveys.

Key Words - Erosion/High/Low/Misc-plan/Permeable/Impermeable/Accretion/ Great Lakes/

"Niagara County, N. Y., Beach Erosion Study" 4308GR0001
U. S. Army Corps of Engineers, House Document No. 271, 78th Congress, 1st Session, Aug., 1943.

Key Words - House Document/Not Annotated/

"Erosion of Our Coastal Frontiers - Part II" 4405GR0001
Wood, S. M., The Illinois Engineer, Illinois Society of Engineers, Inc., Vol. 20, No. 5, May, 1944, pp. 5-34. (TC330 .W879)

Pictorial article relies upon photography showing "before and after" conditions where groins of recent type have been installed. Discussion is related to both ocean and Great Lakes riparian studies. Structural criteria of groins and the effects of artificial interference of the littoral drift are discussed.

Key Words - S. M. Wood/System/N. Atlantic/Great Lakes/Permeable/ Concrete/ Impermeable/Timber/S. Atlantic/Field/ Photographic/Long/Short/

"Steel Sheet Piling for Shore and Beach Protection Structures" 4410GR0001
McIntosh, R. J., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 12, No. 2, Oct., 1944, pp. 49-52. (TC330 .Am3)

Steel sheet piling is discussed as used in beach protection structures. The author commences with a discussion of the cross section, carbon content and tensile strength of pilings used; explains method of driving, lists advantages and disadvantages of steel piling, and discusses steel corrosion.

Key Words - Steel/Const-procedure/Rubble-mound/Structural-design/ Piling/Misc-plan/Timber/Const-problems/Europe/ California/Asia/N. Atlantic/S. Atlantic/Impermeable/

"Shore Protection Methods and Materials" 4410GR0002
Kingman, J. J., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 12, No. 2, Oct., 1944, pp. 27-30. (TC330 .Am3)

Methods and materials for shore protection are discussed by General John J. Kingman, former senior member of the Beach Erosion Board. A review of groins, their design, and the author's own design preferences are presented. Examples of groin projects are given.

Key Words - System/Piling/Concrete/Timber/Rubble-mound/Low/Long/ Short/High/Europe/California/Structural-design/Const-problems/Mobbs/1900-1949/

"Concrete Shore Protection Structures" 4410GR0003
Corning, L. H., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 12, No. 2, Oct. 1944, pp. 45-48. (TC330 .Am3)

Permeable groins made of concrete, their design criteria, and examples of shore protection projects are given.

Key Words - Permeable/Concrete/Accretion/Great Lakes/S. Atlantic/ Field/1900-1949/

"Problems of Island and Coast Protection" 4500GR0001
Kramer, J., Report of West Germany Water Economy Association, 1945, pp. 115-133.

Key Words - Not Annotated/

"Beach Erosion Study, Lake Erie Shore Line in the Vicinity of Huron, Ohio" 45050001
U. S. Army Corps of Engineers, House Document No. 220, 79th Congress, 1st Session, May 1945.

Key Words - House Document/Not Annotated/

"Beach Erosion Study, Ohio Shore Line of Lake Erie from Ohio-Michigan State Line to Marglehead, Ohio" 4505GR0002
U. S. Army Corps of Engineers, House Document No. 177, 79th Congress, 1st Session, May, 1945.

Key Words - House Document/Not Annotated/

"Permeable Jetties Built to Protect Cleveland's Shore" 4507GR0001
Anonymous, Engineering News-Record, McGraw-Hill Pub. Co., Vol. 135, No. 2, July, 1945, p. 89.

Illustrations and details of patented precast concrete groins are presented.

Key Words - Great Lakes/Permeable/Concrete/Const-procedure/Structural-design/

"Art of Beach Protection" 4510GR0001
Wood, S. M., U. S. Patent Office,
Patent No. 2,387,965, Oct., 1945,
3 pp.

An S. M. Wood groin design constructed with timber, steel, concrete or any combination thereof is presented by this patent.

Key Words - Patent/Structural-design/Erosion/Great Lakes/Scour/Permeable/Piling/Steel/Concrete/Timber/Const-procedure/

"Report on the Use of Asphalt at Groin Construction in Delftland (Holland)" 4600GR0001
Peters, A. G., Transactions of Polytechnic Institute, No. 49/50, 1946.

Key Words - Not Annotated/

"Some Sea Defence Works for Reclaimed Lands" 4602GR0001
Dobbie, C. H., Journal of the Institution of Civil Engineers, London, Vol. 22, No. 4, Feb., 1946, pp. 267-272.
(TC345'.G7D65)

Usually a silent topic, the author presents a discussion on the terminal groin of a system. Until a solution is devised that eill end the scour of the terminal groin, it is suggested that permeable lateral works, wave screens, faggoting, and groins (as low as possible) be employed to keep erosion at a minimum. Faggot-work groins, used to reduce irregularities caused by groins in shingle banks, are given special attention.

Key Words - System/Timber/Misc-plan/Piling/Terminal/Europe/Structural-design/Permeable/Impermeable/Low/

"Piers and Jetties of Precast Concrete" 4602GR0002
Lathrop, S. P., Rock Products, Vol. 49,
No. 2, Chicago, Illinois, Feb., 1946,
pp. 136-137.

Construction of five permeable groins at Evanston, Illinois on Lake Michigan is presented in this commercial review. The groins, designed after S. M. Wood, were constructed with precast concrete blocks and anchored by piling. Specific construction procedures and a structural-design are given.

Key Words - Great Lakes/S. M. Wood/Erosion/Accretion/Concrete/
Permeable/Structural-design/High/Const-procedure/

"Beach Erosion Study, Lake Michigan 4604GR0001
Shoreline of Milwaukee County, Wis."
U. S. Army Corps of Engineers, House
Document No. 526, 79th Congress, 1st
Session, Apr., 1946.

Key Words - House Document/Not Annotated/

"Beach Erosion Study of Bakers Haulover 4604GR0002
Inlet, Fla."
U. S. Army Corps of Engineers, House
Document No. 527, 79th Congress, 2nd
Session, Apr., 1946.

Key Words - House Document/Not Annotated/

"The Problem of Coast Erosion" 4700GR0001
Duvivier, J., Journal of the Institution of Civil Engineers, London, 1947, 47 pp.
(TC257 .D2)

Included is a section giving the author's views on groin design and construction. Economics and effectiveness of the structure are discussed. Author's views are based on personal observations, and application of his designs to actual shore protection projects, examples of which are cited.

Key Words - Erosion/Europe/Timber/Piling/Adjustable/High/Scour/Low/ Maintenance/Shore/Misc-plan/Economics/Misc-materials/ Structural-design/Const-procedure/Field/Theory/ Impermeable/Long/Accretion/1900-1949/

"Experimental Steel Sheet Pile Groins, Palm Beach, Florida" 4800GR0001
Ross, C. W., U. S. Army Beach Erosion Board, Technical Memorandum, No. 10, 1948, 30 pp.
(BEB T.M. 10)

Five experimental steel pile groins were constructed on the Atlantic Coast at Palm Beach, Florida. Steel was donated by five steel companies, designs made by the Beach Erosion Board, and construction by the city of Palm Beach. Observations regarding deterioration of steel and protective coatings were made over a period of 10 years, with reports and general conclusions presented regarding useful life of steel sheet piling. Measured and observed data are tabulated.

Key Words - Field/Steel/S. Atlantic/Experimental/System/Const-problems/ Structural-design/1900-1949/Impermeable/

"Recent Storm Damage Along the Coasts of Florida and Mississippi" 4801GR0001
Anonymous, U. S. Army Beach Erosion Board Bulletin, Vol. 2, No. 1, Jan., 1948, pp. 3-4.
(BEB Vol. 2, No. 1)

A photograph in article shows a groin (at Palm Beach) flanked by a storm, and illustrates the necessity of such structures being backed by a bulkhead to protect against hurricanes.

Key Words - Erosion/Texas Gulf/S. Atlantic/Single/Impermeable/

"The Action of Groins on Beach Stabilization" 4804GR0001
Johnson, J. W., University of California, Dept. of Engineering, Navy Dept. Bureau of Ships Contract NObs 2490, Technical Report HE-116-283, Apr., 1948. (V.F. 1090 HE-116-283)

The purpose of this investigation, made at the request of the Beach Erosion Board, was to obtain information on the comparative action of permeable and impermeable groins presently employed to promote accretion and stabilization of beaches where littoral transport induced by wave action is a significant factor.

Key Words - Theory/Experimental/Photographic/Permeable/Impermeable/ Accretion/Erosion/High/Low/Scour/Single/1900-1949/

"Harrison County, Miss., Beach Erosion Control Study" 4805GR0001
U. S. Army Corps of Engineers, House Document No. 682, 80th Congress, 2nd Session, May, 1948.

Key Words - House Document/Not Annotated/

"Paper on Protective Works Adopted to Limit Erosion Along the Open Coast: How They Work" 4806GR0001
Frech, F. F., U. S. Army Corps of Engineers, Philadelphia District, June, 1948, 35 pp., Unpublished Report. (TC330 .Fr48)

Shore protective structures, including groins, along the New Jersey coast are discussed and evaluated. New designs are offered where shore conditions warrant special structures.

Key Words - N. Atlantic/Field/Piling/Timber/Rubble-mound/Single/Economics/ Accretion/Structural-design/Const-problems/Erosion/Long/High/ Short/Low/System/T-groins/Steel/Impermeable/1900-1949/ Maintenance

"Wave Action on Beaches" 4806GR0002
Jones, J. H., M. S. Thesis, June, 1948, Univ. of California, 24 pp., Unpublished. (GC211 .J77)

The purpose of this investigation was to study effects of groins on wave-induced longshore currents. Studies of the effects of several types

of groins on wave action, littoral sand transport, and underwater topography in the vicinity of each structure were made. The study was largely comparative, and only the relative changes effected by each type of groin were investigated.

Key Words - Model/Photographic/Erosion/Accretion/Permeable/Impermeable/ High/Low/Scour/

"North Carolina Shoreline, Beach Erosion Study" 4812GR0001
U. S. Army Corps of Engineers, House Document No. 763, 80th Congress, 2nd Session, Dec., 1948.

Key Words - House Document/Not Annotated/

"Punta Las Marias, San Juan, P. R., Beach Erosion Control Study" 4812GR0002
U. S. Army Corps of Engineers, House Document No. 769, 80th Congress, 2nd Session, Dec., 1948.

Key Words - House Document/Not Annotated/

"Winthrop Beach, Mass., Beach Erosion Control Study" 4812GR0003
U. S. Army Corps of Engineers, House Document No. 764, 80th Congress, 2nd Session, Dec., 1948.

Key Words - House Document/Not Annotated/

"Anna Maria and Longboat Keys, Fla., Beach Erosion Study" 4812GR0004
U. S. Army Corps of Engineers, House Document No. 760, 80th Congress, 2nd Session, Dec., 1948.

Key Words - House Document/Not Annotated/

"Palm Beach, Fla., Beach Erosion Study" 4812GR0005
U. S. Army Corps of Engineers, House Document

No. 772, 80th Congress, 2nd Session, Dec., 1948.

Key Words - House Document/Not Annotated/

"Santa Barbara, Calif. Beach Erosion Control Study" 4812GR0006
U. S. Army Corps of Engineers, House Document
No. 761, 80th Congress, 2nd Session, Dec., 1948.

Key Words - House Document/Not Annotated/

"Jupiter Island Fla., Beach Erosion Study" 4812GR0007
U. S. Army Corps of Engineers, House Document
No. 765, 80th Congress, 2nd Session, Dec., 1948.

Key Words - House Document/Not Annotated/

"Report to the Seventeenth International Navigation Congress" 4900GR0001
Abecasis, C. K., Seventeenth International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Belgium, Section 2 - Ocean Navigation, Communication 1, 1949, 11 pp. (TC5 .In8r)

A general discussion of the theory of groin purpose as dependent upon design criteria is presented.

Key Words - Terminal/Misc-plan/Low/Timber/Steel/Piling/Concrete/Europe/ Theory/Rubble-mound/T-groins/Accretion/System/

"Report to the Seventeenth International Navigation Congress" 4900GR0002
Acena, V. C., Isla, A. G., and Vera, L. D., Seventeenth International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Belgium, Section 2 - Ocean Navigation, Communication 1, 1949, pp. 21-44. (TC5 .In8r)

Key Words - Not Annotated/

"Report to the Seventeenth International Navigation Congress" 4900GR0003
Frech, F. F., Seventeenth International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Belgium, Section 2 - Ocean Navigation, Communication 1, 1949, pp. 45-62. (TC5 .In8r)

Extensive construction of protective structures has ensued along a coastal resort area of New Jersey, an area subject to increasing amounts of erosion. Among the protective structures, groins are discussed in regard to design, effect, costs, with examples.

Key Words - N. Atlantic/Erosion/Timber/Rubble-mound/Misc-plan/Piling/ Economics/Structural-design/Impermeable/High/Long/Accretion/ 1900-1949/Single/System/T-groins/

"Report to the Seventeenth International Navigation Congress" 4900GR0004
Dobbie, C. H., Seventeenth International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Belgium, Section 2 - Ocean Navigation, Communication 1, 1949, pp. 75-84. (TC5 .In8r)

Effects of and essential design criteria of groins used in England are briefly reviewed.

Key Words - System/Scour/Erosion/Terminal/Permeable/Impermeable/Timber/ Adjustable/Steel/Mobbs/Europe/

"Report to the Seventeenth International Navigation Congress" 4900GR0005
Duvivier, J., Seventeenth International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Belgium, Section 2 - Ocean Navigation, Communication 1, 1949, pp. 85-103.

Author stresses that design criteria for shore protection structures, including groins, be preceded by careful field research. Various types of groins, their design, function, effect, and cost are discussed.

Key Words - Economics/Scour/Erosion/Europe/Misc-plan/Timber/Piling/Steel/ Concrete/High/Low/Long/Maintenance/Mobbs/Impermeable/Permeable/

"Report to the Seventeenth International Navigation Congress" 4900GR0006
Viscentini, M., Pancini, G., and Teuschl, E., Seventeenth International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Belgium, Section 2 - Ocean Navigation, Communication 1, 1949, pp. 105-134. (TC5 .In8r)

Key Words - Not Annotated/

"Report to the Seventeenth International Navigation Congress" 4900GR0007
Thierry, J. W., and van der Burgt, J. H., Seventeenth International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Belgium, Section 2 - Ocean Navigation, Communication 1, 1949, pp. 135-156. (TC5 .In8r)

Key Words - Not Annotated/

"Sea Transportation Structures III-B" 4900GR0008
Agatz, A., Sea Structures, Land Conservation, 1949, pp. 1080-1083.

Key Words - Not Annotated/

"Coast Protection" 4904GR0001
Minikin, R. R., The Dock and Harbour Authority, Vol. 29, Nos. 337-342, Nov., 1948 - Apr., 1949, pp. 165-169, 193-198, 232-236, 251-256, 281-285, 311-314.

This article, part of a continuing series in the journal, covers numerous types of shore protection measures, their design, and problems encountered. Groin design and effect are covered.

Key Words - Timber/Europe/Long/Low/Rubble-mound/Concrete/Structural-design/Misc-plan/System/Single/Short/Great Lakes/Case/Impermeable/Accretion/

"Colonial Beach, Va., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 333, 81st Congress, 1st Session, Sept., 1949. 4909GR0001

Key Words - House Document/Not Annotated/

"Deterioration of Steel Sheet Pile Groins at Palm Beach, Florida"
Ross, C. W., Corrosion, National Association of Corrosion Engineers, Vol. 5, No. 10, 1949, pp. 339-341. (TA462 .C65) 4910GR0001

See entry 4800GR0001.

Key Words - Field/Steel/S. Atlantic/Experimental/System/Const-problems/Structural-design/1900-1949/Impermeable/

"All Steel Groyne - Miami Beach"
Lipp, M. N., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 17, No. 2, Oct., 1949, pp. 6-7. 4910GR0002

An all-steel groin consisting of variable length 27-pound steel sheet piling, steel channel wales and steel H piling was constructed on Miami Beach. Construction procedure and design of groin are given.

Key Words - Steel/Piling/Scour/S. Atlantic/Const-problems/Structural-design/1900-1949/Low/Const-procedure/Legal/Single/Impermeable/

"Planning Shore Protection"
Scott, T. A., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 17, No. 2, Oct., 1949, pp. 8-9. (TC330 .Am3) 4910GR0003

The author briefly discusses effect of groins on sand movement.

Key Words - Accretion/N. Atlantic/

Winds, Waves and Maritime Structures 5000GR0001
Minikin, R. R., Charles Griffin and Co., Ltd., London, 1950, pp. 80, 83-85, 97, 100. (TC205 .M53)

Brief discussions of groins are found throughout the text and deal mainly with deficiencies encountered in groin construction.

Key Words - Structural-design/High/Low/Accretion/Erosion/Scour/ Europe/Great Lakes/

"Origin and Decline of the Island Trischen" 5000GR0002
Wohleberg, E., Transactions of Geographic Society, Hamburg, Vol. 49, 1950, pp. 158-187.

Key Words - Not Annotated/

"Coast Erosion" 5000GR0003
Minikin, R. R., The Dock and Harbour Authority, London, Vol. 30, 31, 1950, pp. 305-308, 335-339, 369-373, 17-25, 47-51, 91-94, 127-131.

Review of erosion of England's coastline and measures taken to protect shore are presented.

Key Words - Timber/Concrete/Low/High/Impermeable/Europe/Accretion/ Erosion/Case/Rubble-mound/Short/Long/1800-1900/1900-1949/ System/Piling/

"Area 1 - Ash Creek to Saugatuck River, Conn., Beach Erosion Control Study" 5001GR0001
U. S. Army Corps of Engineers, House Document No. 454, 81st Congress, 2nd Session, Jan., 1950.

Key Words - House Document/Not Annotated/

"Area 2 - Hammonasset River to East River, Conn., Beach Erosion Control Study" 5002GR0001
U. S. Army Corps of Engineers, House Document No. 474, 81st Congress, 2nd Session, Feb., 1950.

Key Words - House Document/Not Annotated/

"South Shore, State of Rhode Island, Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 490, 81st Congress, 2nd Session, Feb., 1950. 5002GR0002

Key Words - House Document/Not Annotated/

"Atlantic City, N. J., Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 538, 81st Congress, 2nd Session, Mar., 1950. 5003GR0001

Key Words - House Document/Not Annotated/

"Cleveland and Lakewood, Ohio, Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 502, 81st Congress, 2nd Session, Mar., 1950. 5003GR0002

Key Words - House Document/Not Annotated/

"Appendix IX - Shore of Lake Erie in Lake County, Ohio, Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 596, 81st Congress, 2nd Session, May, 1950. 5005GR0001

Key Words - House Document/Not Annotated/

"Presque Isle Peninsula, Erie, Pennsylvania Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 397, 86th Congress, 2nd Session, May, 1960. 5005GR0002

Key Words - House Document/Not Annotated/

"The Danish Westcoast: Littoral Drift Problems and Measures Against Coast Erosion" 5008GR0001
Bruun, P., The Dock and Harbour Authority, London, Vol. 31, No. 359, Sept., 1950, pp. 163-167.

Coastal protection structures, including groins, built on the west coast of Denmark are reviewed for the period from 1870 to 1950. The author gives an example of interest, noting that impermeable concrete-block groins have been sinking due to their great weight, and must be heightened periodically. Construction costs, structural design, and maintenance of structures are given.

Key Words - Europe/1900-1949/Timber/Piling/Rubble-mound/Concrete/Erosion/Accretion/Structural-design/Economics/1950-1954/Const-problems/Maintenance/Impermeable/System/

"Scattered Groins" 5009GR0001
Bruun, P., Ingenioren, Denmark, Issue 38, Sept., 1950, pp. 776-779. (Translation available at CERC Library - TC535 .B6)

Successful operation of groins depends on length and spacing of groins where impounded sediment will form a saw-toothed coast-line or a series of closed bays.

Key Words - Europe/Short/Low/System/California/Erosion/Field/Misc-plan/Single/Impermeable/

"Design and Construction of Groins" 5010GR0001
Horton, D. F., Proceedings of First Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1950, pp. 246-253. (TC203 .C6)

This paper is a digest on current design and construction practices concerning groin limitations, types, length and profile, spacing, and selection of type.

Key Words - Steel/Timber/Concrete/Rubble-mound/Structural-design/Impermeable/High/Low/System/Misc-plan/Permeable/Economics/

"Littoral Processes on Sandy Coasts" 5010GR0002
Eaton, R. O., Proceedings of First Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1950, pp. 148-149. (TC203 .C6)

In a section on man made littoral barriers, basic data regarding groins and their effect upon littoral transport are presented.

Key Words - Accretion/Erosion/Short/Long/1950-1954/

"Water Economy between North and Baltic Sea, Kiel" 5100GR0001
Weinnoldt, E., and Suhr, H., 1951.

Key Words - Not Annotated/

"Seagroins on Coasts with Weak Tides and Strong Sand Drift" 5100GR0002
Burhorn, E., Planning and Building 5, No. 3, 1951, pp. 57-62.

Key Words - Not Annotated/

"Application of Asphalt in Hydraulic Engineering Works" 5101GR0001
van der Burgt, J. H., U. S. Army Beach Erosion Board Bulletin, Vol. 5, No. 1, Jan., 1951, pp. 25-64. (BEB Vol. 5, No. 1)

Research and testing during construction of asphalt structures have led to good control of the properties of asphaltic bitumen and bituminous mixtures. Use of these products in protective shoreline structures, including groins, is outlined and evaluated.

Key Words - Asphalt/N. Pacific/Texas Gulf/Europe/Field/Single/System/Impermeable/Structural-design/

"Influence of Groins on Beach Stabilization" 5101GR0002
Shay, E. A., and Johnson, J. W., University of California at Berkeley, Department of Engineering, Series 14, Issue 6, Beach Erosion Board Contract W49-055-eng-2, Jan.,

1951. (V.F. 1091 series 14-6)

Effect of impermeable and permeable groins was determined by comparing topography of a straight, unobstructed beach in equilibrium with a beach that had reached equilibrium after a system of groins had been installed. Model tests showed that permeable groins retained from 11% to 26% of the sand used in the experiment; far less effective than for impermeable groins. Dye tests were employed to trace the pattern of littoral movement through permeable groins.

Key Words - Laboratory/Model/Experimental/Permeable/Impermeable/ Erosion/Accretion/High/Low/System/Single/Photographic

"Revere Beach, Mass., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 167, 82nd Congress, 1st Session, May, 1951. 5105GR0001

Key Words - House Document/Not Annotated/

"Quincy Shore Beach, Mass., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 145, 82nd Congress, 1st Session, May, 1951. 5105GR0002

Key Words - House Document/Not Annotated/

"Revere Beach, Mass., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 146, 82nd Congress, 1st Session, May, 1951. 5105GR0003

Key Words - House Document/Not Annotated/

"Beach Protection Engineers Attempt to Outwit Nature at Presque Isle, Peninsula"
Forney, F. H., and Lynde, G. A., Civil Engineering, ASCE, Vol. 21, No. 9, Sept., 5109GR0001

1951, pp. 28-31.

Since 1819 continuous projects have been underway to solve the problem of beach erosion along Presque Isle Peninsula, Pennsylvania. Protection measures, including groins and artificial fill, are reviewed.

Key Words - Erosion/Accretion/1800-1900/1900-1949/Steel/Piling/ Rubble-mound/Low/Long/Great Lakes/Impermeable/Field/ System/

"Underwater Longitudinal Works for Coastal Protection" 5200GR0001
Bomas, P., Wasserwirtschaft - Wassertechnik, Berlin, Vol. 2, No. 5, 1952.

Key Words - Not Annotated/

Coast Erosion and Protection; Studies in Causes and Remedies 5200GR0002
Minikin, R. R., 1st ed., Chapman and Hall Ltd., London, 1952, 240 pp. (TC330 1952)

An extensive part of this text deals with groins. Function, construction, length, spacing, orientation, and other considerations of design are presented with examples and illustrations.

Key Words - Timber/Misc-plan/ERosion/Accretion/Impermeable/High/Low/ Short/Long/System/Field/Concrete/Piling/Misc-materials/ Europe/Structural-design/Single/Great Lakes/Theory/Spur/

"Abbruch und Schutz der Steilufer an der Ostseeküste" 5200GR0003
Petersen, M., Die Küste, Kiel, West Germany Vol. 1, No. 2, 1952, pp. 100-152. (GB4575 .K97)

Translated Title: "Breaking and Protection of Steep Shores of the Baltic Sea Coast ...."

Key Words - Not Annotated/

"Die Wirking der Buhne H in Wangerooge - West auf das Seegat ...." 5200GR0004
Lüders, K., Die Küste, Kiel, West Germany, Vol. 1, No. 1, 1952, pp. 21-26. (GB457.5 .K97)

Translated Title: "The Effect of Groin H in Wangerooge - West ...."

Key Words - Not Annotated/

"Die Ursachen der Abbruchserscheinungen am West - und Nordweststrand der Insel Norderney" 5200GR0005
Thilo, R., and Kurzak, G., Die Küste, Kiel, West Germany, Vol. 1, No. 1, 1952, pp. 1-20. (GB457.5 .K97)

Translated Title: "Origin of Breaking Phenomena on West and Northwest Beach of the Island of Norderney"

Key Words - Not Annotated/

"Gutachtliche Stellungnahme zu den Untersuchungen über die Ursachen der Abbrochserscheinungen am West - und Nord - weststrand der Insel Norderney ..." 5200GR0006

Coastal Commission of North Sea and Baltic Sea, Die Küste, Kiel, West Germany, Vol. 1, No. 1, 1952, pp. 27-42. (GB457.5 .K97)

Translated Title: "Experts Report on Investigation Concerning Reasons for Coastal Breaking Phenomena on West and North Part of Norderney ...."

Key Words - Not Annotated/

"Asphalt Construction in Groin Building" 5200GR0007
Kloss, Wosser und Boden, Hamburg, 4, No. 3, 1952, pp. 52-56.

Key Words - Not Annotated/

"Summary Report on Studies of Sand Transportation by Wave Action" 5201GR0001
Anonymous, U. S. Army Beach Erosion Board Bulletin, Vol. 6, No. 1, Jan., 1952, pp. 3-6. (BEB Vol. 6, No. 1)

A model study was made of two types of groins: one, a sloping, impermeable groin; the second, a high, permeable groin. The investigation was designed to determine relative influence of the high permeable groins and the sloping impermeable groins for stabilizing a beach where littoral transport occurs. Among other conclusions it was found that permeable groins should not be used as individual units isolated along the beach, but rather in a system of groins.

Key Words - System/High/Permeable/Impermeable/Theory/Experimental/ Model/System/Single/Scour/Accretion/Erosion/1950-1954/ Misc-plan/

"Appendixes III, VII, and XII, Ohio Shore Line of Lake Erie between Fairport and Ashtabula, Beach Erosion Control Study" 5201GR0002
U. S. Army Corps of Engineers, House Document No. 351, 82nd Congress, 2nd Session, Jan., 1952.

Key Words - House Document/Not Annotated/

"Appendixes V and X, Ohio Shore Line of Lake Erie between Ashtabula and the Pennsylvania State Line, Beach Erosion Control Study" 5201GR0003
U. S. Army Corps of Engineers, House Document No. 350, 82nd Congress, 2nd Session, Jan., 1952.

Key Words - House Document/Not Annotated/

"Durability of Steel Sheet Piling in Shore Structures" 5202GR0001
Rayner, A. C., and Ross, C. W., U. S. Army Beach Erosion Board Technical Memorandum No. 12, Feb., 1952, 51 pp. (BEB T.M. No. 12)

Along the Atlantic Coast of the United States and the Gulf Coast of Florida, 153 groups of steel sheet piling structures were

studied and classified. Structures were selected for various conditions of exposure, treatment, and types. Measurements and observations were made over a 10-year period and general conclusions presented regarding useful life of steel sheet piling. Measured and observed data are tabulated.

Key Words - N. Atlantic/S. Atlantic/Steel/Piling/Const-problems/ Field/

"Erosion Problems on the Ohio Shore of Lake Erie" 5204GR0001
Wells, J. D., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 20, No. 1, Apr., 1952, pp. 5-8. (TC330 .Am3)

The author gives a good review of costs (1952 figures) for groin projects along the Ohio shore of Lake Erie. Groins designs are given.

Key Words - Great Lakes/System/Economics/Timber/Steel/Piling/Field/ Structural-design/Artificial-fill/Rubble-mound/Concrete/ Impermeable/

"Concrete Blocks Form Low-Cost Groins" 5204GR0002
Weber, H., Engineering News-Record, McGraw-Hill Pub. Co., Vol. 148, No. 15, Apr., 1952. pp. 73-74.

Two installations of concrete-block groins were made on Long Island near Riverhead -- one in 1948, the second in 1950. The later project was built at Ocean Beach. Stabilization of the beaches has occurred. Construction procedures and structural criteria are presented.

Key Words - Concrete/Impermeable/Structural-design/N. Atlantic/ Field/Const-procedure/Economics/System/

"Report on Concrete Block Groins" 5205GR0001
Anonymous, U. S. Army Corps of Engineers, New York District, May, 1962.

Key Words - Not Annotated/

"Area 4 - Connecticut River to Hammonasset River, Conn., Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 514, 82nd Congress, 2nd Session, June, 1952. 5206GR0001

Key Words - House Document/Not Annotated/

"Measures Against Erosion at Groins and Jetties" 5210GR0001
Brunn, P., Proceedings of Third Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1952, pp. 137-164. (TC203 .C6)

One problem on a coast with littoral transport is erosion on the downdrift side of groins and jetties. This paper deals with the problem giving special consideration to conditions on the Danish North Sea Coast where many interesting problems of littoral transport and coastal protection are found. These are discussed as an introduction to the main part of the paper which is principally concerned with downdrift erosion and measures for its prevention.

Key Words - Erosion/Field/Misc-plan/Concrete/Model/Experimental/ Europe/Z-groins/T-groins/L-groins/Structural-design/ Economics/1900-1949/Corner-groins/Impermeable/

"Life of Steel Sheet Pile Structures in Atlantic Coastal States" 5210GR0002
Rayner, A. C., Proceedings of Third Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1952, pp. 209-216. (TC203 .C6)

Harbor bulkheads, beach bulkheads, and groins constructed of steel sheet piles were studied for more accurate estimates of the useful life based on rate of deterioration. Structures were located along the Atlantic Coast of the United States and the Gulf Coast of Florida. Mean rate of loss of thickness of sheet piles is given. It is shown that different types of structures and several parts of the same structure have different rates of loss.

Key Words - Steel/Texas Gulf/S. Atlantic/Field/N. Atlantic/Const-problems/Piling/

"Case History of Shore Protection at Presque Isle Peninsula, Pa." 5210GR0003

Lee, C. E., Proceedings of Third Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1952, pp. 331-343. (TC203 .C6) 5210GR0003

In the 117 years in which protective works have been applied to Presque Isle Peninsula there have been many types of structures and many methods of protection attempted. The large forces involved proved too great for vegetal growth alone to be effective in the porous material which forms the peninsula. Timber structures other than the rock-filled crib groins have had short life. Bulkheads exposed to the direct action of the waves have required frequent and expensive repairs. As demonstrated by the impoundment at the privately owned Kelso groin at the junction of the peninsula and the mainland, and at experimental groins, a spending beach gives best results. The problem is the method to be used in forming the beach.

Key Words - Accretion/Cantilever/Steel/System/Economics/Erosion/ Field/1900-1949/1950-1954/Impermeable/Permeable/

"Some Aspects of Shore Protection in Boston Harbor" 5210GR0004
Wey, G. L., Proceedings of Third Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1952, pp. 190-196. (TC203 .C6)

Costs, and a brief description of short riprap groins constructed normal to a seawall are presented.

Key Words - Impermeable/Low/Rubble-mound/N. Atlantic/Field/1950-1955/Short/Economics/System/

"Development of the New Jersey Shore" 5210GR0005
Rankin, J. K., Proceedings of Third Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1952, pp. 306-317. (TC203 .C6)

Maintenance, history, and success of shore protection works, including groins, are discussed county by county along the New Jersey shore.

Key Words - N. Atlantic/System/Maintenance/Economics/Field/

"Illinois Shore of Lake Michigan, Beach Erosion Control Study" 5210GR0006
U. S. Army Corps of Engineers, House Document No. 28, 83rd Congress, 1st Session, Oct., 1952.

Key Words - House Document/Not Annotated/

"Appendix I, Coast of California, Carpinteria to Point Mugu, Beach Erosion Control Study" 5210GR0007
U. S. Army Corps of Engineers, House Document No. 29, 83rd Congress, 1st Session, Oct., 1952.

Key Words - House Document/Not Annotated/

"Information on Beach Protection in Florida" 5210GR0008
Anonymous, State of Florida, Board of Conservation, Division of Water Survey and Research, Paper No. 8, Oct., 1952, pp. 17-22. (TD224 .F6A3 No.8)

Shore protection techniques and structures are presented. Groins are discussed giving detailed structural criteria including length, spacing, height as used along the Florida and European coastlines.

Key Words - Scour/System/Structural-design/Rubble-mound/Misc-materials/Concrete/Erosion/Single/Europe/Timber/High/Steel/S. Atlantic/

"Area 5, Pawcatuck River to Thames River, Conn., Beach Erosion Control Study" 5212GR0001
U. S. Army Corps of Engineers, House Document No. 31, 83rd Congress, 1st Session, Dec., 1952.

Key Words - House Document/Not Annotated/

"Appendix VI, Ohio Shore Line of Lake Erie, Sandusky to Vermillion, Ohio, Beach Erosion Control Study" 5212GR0002
U. S. Army Corps of Engineers, House Document No. 32, 83rd Congress, 1st Session, Dec., 1952.

Key Words - House Document/Not Annotated/

"Lake Michigan Erosion Studies" 5300GR0001
Hardin, J. R., and Booth, W. H., Transactions of the American Society of Civil Engineers, Vol. 118, Paper No. 2535, 1953, pp. 39-50

The State of Illinois, acting through its Division of Waterways, has become increasingly concerned with the erosion problem of Lake Michigan. As a result, the state requested a cooperative beach erosion control study to determine the best plan of improvement for stabilizing the shoreline. This paper deals with condition of existing structures, state of erosion, and describes recommended protective measures.

Key Words - Permeable/Impermeable/Long/High/Low/Concrete/Steel/Piling/Great Lakes/Field/Structural-design/Artificial-fill/Accretion/Erosion/1900-1949/1950-1954/

"Theoretical Observations for Installation of Coastal Protective Structures on Tideless Shores" 5300GR0002
Vollbrecht, K., Wasserwirtschaft-Wassertechnik, Berlin, West Germany, Vol. 3, No. 6, 1953.

Key Words - Not Annotated/

"Report to the Eighteenth International Navigation Congress" 5300GR0003
Van Asbeck, W. F., Ferguson, H. A., Schoemaker, H. J., Eighteenth International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Section 2 - Ocean Navigation, Question 1, 1953, pp. 169-198.

Improvement of groins along the North Sea coast by asphalt grouting is reviewed. Mix design of the asphalt grout and design of the groins are given.

Key Words - Asphalt/Rubble-mound/Structural-design/Europe/Field/Low/Impermeable/1900-1949/

"Hydraulic Structures (Groins, Dams, Dykes, and Canal Embankments) of Bitumen Type" 5300GR0004
Rohnish, Bitumen, Heidelberg, 15, No. 9/10, 1953.

Key Words - Not Annotated/

"Steep Shore of Brodten - Cause of Breaking ...." 5300GR0005
Ottman, Transactions of Museum of Geography and Natural History, Lubeck, No. 44, 1953, pp. 145-195.

Key Words - Not Annotated/

"Racine County, Wis., Beach Erosion Control Study" 5302GR0001
U. S. Army Corps of Engineers, House Document No. 88, 83rd Congress, 1st Session, Feb., 1953.

Key Words - House Document/Not Annotated/

"Area 6 - Niantic Bay to Connecticut River, Connecticut, Beach Erosion Control Study" 5302GR0002
U. S. Army Corps of Engineers, House Document No. 84, 83rd Congress, 1st Session, Feb., 1953.

Key Words - House Document/Not Annotated/

"Precast Concrete Block Groins" 5304GR0001
Weber, H., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 21, No. 1, Apr., 1953, pp. 3-5. (TC330 .Am3)

Use of concrete blocks for groins is discussed in relation to structural design, durability, economics, and construction procedures. The advantage of blocks is illustrated by actual projects emphasizing fast construction and low cost.

Key Words - Concrete/Economics/N. Atlantic/1900-1949/1950-1954/
Structural-design/Impermeable/Low/Field/

"Appendix IV, Ohio Shore Line of Lake Erie, Sandusky Bay, Ohio, Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 126, 83rd Congress, 1st Session, Apr., 1953. 5304GR0002

Key Words - House Document/Not Annotated/

"Appendix XIV Ohio Shore Line of Lake Erie, Sheffield Lake Village to Rocky River, Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 127, 83rd Congress, 1st Session, Apr., 1953. 5304GR0003

Key Words - House Document/Not Annotated/

"Coast Protection: Some Recent Works on the East Coast, 1942-52"
Duvivier, J., Journal of the Institution of Civil Engineers, London, Paper No. 5901, June, 1953, pp. 510-531. 5306GR0001

As a result of floods and erosion at Lincolnshire, England, a substantial scheme of new construction and reinforcement of the old defenses was carried out between 1943 and 1949. Costs, structural-design, and construction of these works, including groins, are presented.

Key Words - Economics/1940-1944/1945-1949/Timber/System/Field/Piling/
Europe/Structural-design/Low/Long/Impermeable/Concrete/
Steel/1950-1954/Const-procedure/Short/Accretion/Erosion/
Maintenance/Const-problems/

"Area 3 - New Haven Harbor to Housatonic River, Conn., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 203, 83rd Congress, 1st Session, July, 1953. 5306GR0002

Key Words - House Document/Not Annotated/

"Ocean City, N. J., Beach Erosion Control Study" 5306GR0003
U. S. Army Corps of Engineers, House Document 184, 83rd Congress, 1st Session, June, 1953.

Key Words - House Document/Not Annotated/

"Virginia Beach, Va., Beach Erosion Control Study" 5306GR0004
U. S. Army Corps of Engineers, House Document No. 186, 83rd Congress, 1st Session, June, 1953.

Key Words - House Document/Not Annotated/

"Materialvandring Pa Harkyster" 5306GR0005
Bruun, P., Ingeniaren, 62 Argang No. 30, July, 1953.

English Summary: "Measures Against Erosion at Groups of Groins."

Key Words - Not Annotated/

"Cold Spring Inlet (Cape May Harbor), N. J." 5307GR0001
U. S. Army Corps of Engineers, House Document No. 206, 83rd Congress, 1st Session, July, 1953.

Key Words - House Document/Not Annotated/

"Gulf Shore of Galveston Island, Tex., Beach Erosion Control Study" 5307GR0002
U. S. Army Corps of Engineers, House Document No. 218, 83rd Congress, 1st Session, July, 1953.

Key Words - House Document/Not Annotated/

"Waikiki Beach, Island of Oahu, T. H., Beach Erosion Control Study" 5308GR0001
U. S. Army Corps of Engineers, House Document, No. 227, 83rd Congress, 1st Session, Aug., 1953.

Key Words - House Document/Not Annotated/

"Plum Island, Mass., Beach Erosion Control Study" 5308GR0002
U. S. Army Corps of Engineers, House Document No. 243, 83rd Congress, 2nd Session, Aug., 1953.

Key Words - House Document/Not Annotated/

"Appendix VIII, Ohio Shore Line of Lake Erie between Vermillion and Sheffield Lake Village, Beach Erosion Control Study" 5308GR0003
U. S. Army Corps of Engineers, House Document No. 229, 83rd Congress, 1st Session, Aug., 1953.

Key Words - House Document/Not Annotated/

"Presque Isle Peninsula, Erie, Pa., Beach Erosion Control Study" 5308GR0004
U. S. Army Corps of Engineers, House Document No. 231, 83rd Congress, 1st Session, Aug., 1953.

Key Words - House Document/Not Annotated/

"Experimental Groins, Camp Perry, Ohio" 5309GR0001
Anonymous, Sept., 1953, Unpublished Pictorial Report. (V.F. 618 9/22/53)

A photographic history, this report reviews the construction and progressive condition of a "mix-in-place" groin for a period of two months, and construction and condition of an "intrusion grouted rockfill" groin.

Key Words - Great Lakes/Field/Experimental/Structural-design/ Impermeable/Const-procedure/Rubble-mound/Misc-materials/1950-1954/Photographic/Single/

"Low Cost Shore Protection Used on the Great Lakes" 5310GR0001
Brater, E. F., Proceedings of Fourth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1953, pp. 214-226. (TC203 .C6)

This paper presents results of 3 years of field observations on low cost beach protection structures in use on the Great Lakes. Structures were studied in regard to their effectiveness as beach building and protective devices and with respect to their durability in resisting ice and wave forces. The term "low cost" refers to structures which cost between $10 and $30 per foot of frontage at 1952 prices.

Key Words - Great Lakes/Accretion/Economics/Const-problems/Timber/ Concrete/Structural-design/Impermeable/

"Principles of Shore Protection for the Great Lakes" 5310GR0002
Mason, M. A., Proceedings of Fourth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1953, pp. 207-213. (TC203 .C6)

The author states that a requirement of impermeability is absolute for groins built on shores of the Great Lakes. Because of the scarcity of natural shore sediment, permeable groins would be inadequate. The paper presents discussion of the coastal engineer's role and duty in shore protection.

Key Words - Great Lakes/Impermeable/

"Filling Pattern of the Fort Sheridan Groin System" 5310GR0003
Lee, C. E., Proceedings of Fourth Conf. on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Oct., 1953, pp. 227-248. (TC203 .C6)

Analysis of the action of a groin system through the 14 months following construction is reported. Six surveys were made during this period which included onshore elevations to the bluff line and offshore soundings to about 7-foot depths. Wind records for investigation were studied, and hindcasts of wave conditions made. Analysis reveals that the cumulative volume of impoundment at the system may be expressed approximately. Tables of impoundment volumes are included as well as an energy index, and the relationship is discussed. Filling patterns of the system are recorded.

Key Words - Great Lakes/Cantilever/Steel/Accretion/Low/Long/System/ Impermeable/

"Area 7, Housatonic River to Ash Creek, Conn., Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 248, 83rd Congress, 2nd Session, Oct., 1953. 5310GR0004

Key Words - House Document/Not Annotated/

"Coastal Protection, Review of Methods for Defence" Bruun, P., The Dock and Harbour Authority, London, Vol. 34-35, Nov., Dec., 1953, 10 pp. (V.F. 1289 11/53) 5311GR0001

The author discusses and defines different types of groins, stating that they have often done more harm than good. Given also are conditions under which groins should or should not be built, and their long- and short-range influences.

Key Words - L-groins/T-groins/Z-groins/Corner-groins/Misc-plan/ Piling/Single/System/Field/Europe/Timber/Economics/ Erosion/Accretion/Impermeable/

"Appendix II, Coast of California, Point Mugu to San Pedro Breakwater, Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 277, 83rd Congress, 2nd Session, Nov., 1953. 5311GR0002

Key Words - House Document/Not Annotated/

"Photographs of Ft. Macon near Morehead City, North Carolina after Series of Hurricanes in 1954" 5400GR0001
Anonymous, U. S. Army Beach Erosion Board, 1954, Unpublished Report. (V.F. 1772 (1954))

This report includes a photograph that shows 1954 hurricane damage, and presents a plan for improvement of beach stability through construction of groins.

Key Words - Photographic/Erosion/S. Atlantic/Impermeable/Rubble-mound/1950-1954/

"Model Tests with Moveable Floor in Sea and Sea Harbor Construction" 5400GR0002
Blau, E., Wasserwirtschaft - Wassertechnik, Berlin, Vol. 4, No. 4, 1954, pp. 244-251.

Key Words - Not Annotated/

"Actual Problems of Coastal Protection" 5400GR0003
Bulow, K., Wasserwirtschaft - Wassertechnik, Berlin, Vol. 2, No. 9, 1954.

Key Words - Not Annotated/

"Model Tests of Wave Run-up on Sea Dykes in Watt Region" 5400GR0004
Hansen, W., Proceedings of the Testing Institute of Hannover, Hannover, Germany, No. 5, 1954, pp. 123-165.

Key Words - Not Annotated/

"General Coastal Dynamics and Coastal Protection of the South Baltic Sea between Trave and Swine" 5400GR0005
Bulow, K., Geologie 10, 1954.

Key Words - Not Annotated/

"Appendix XI, Ohio Shore Line of Lake Erie, Euclid to Chagrin River, Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 324, 83rd Congress, 2nd Session, Feb., 1954. 5402GR0001

Key Words - House Document/Not Annotated/

"Hampton Beach, N. H., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 325, 83rd Congress, 2nd Session, Feb., 1954. 5402GR0002

Key Words - House Document/Not Annotated/

"Anaheim Bay Harbor, Calif."
U. S. Army Corps of Engineers, House Document No. 349, 83rd Congress, 2nd Session, Mar., 1954. 5403GR0001

Key Words - House Document/Not Annotated/

"Selkirk Shores State Park, N. Y., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 343, 83rd Congress, 2nd Session, Mar., 1954. 5403GR0002

Key Words - House Document/Not Annotated/

"Pinellas County, Fla., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 380, 83rd Congress, 2nd Session, Apr., 1954. 5404GR0001

Key Words - House Document/Not Annotated/

"Coast Erosion and the Development of Beach Profiles" 5406GR0001
Bruun, P., U. S. Army Beach Erosion Board Technical Memorandum, No. 44, June, 1954, pp. 2-64. (BEB T.M. 44)

A groin system built during 1875-1909 and its subsequent maintenance is described. Shoreline changes, erosion profiles, and actual and theoretical quantities of eroded material along the Danish North Sea Coast are given.

Key Words - Europe/1900-1949/Concrete/Impermeable/Scour/Structural-design/Maintenance/Terminal/Field/System/Erosion/Theory/

"Fundamentals of Coast Erosion and Defence"
Minikin, R. R., Proceedings of Fifth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Sept., 1954, pp. 448-471. (TC203 .C6)

The author presents examples of European coastal problems and the remedies applied. Countries include England, Denmark, Holland, Belgium, France, Spain, and Italy.

Key Words - Low/Timber/Europe/System/Concrete/Terminal/Field/Impermeable/Scour/Accretion/High/Rubble-mound/Misc-materials/Structural-design/Steel/Short/Single/1900-1949/1950-1954/

"Bitumen in Coastal Engineering" 5409GR0002
van Asbeck, W. F., Proceedings of Fifth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Sept., 1954, pp. 587-618. (TC203 .C6)

Aspects of the design of coastal protection works using bitumen ore given. A short review of important shore protection structures, including groins; methods of application and properties of bituminous construction; and a number of representative examples of each type of application are given.

Key Words - Asphalt/Structural-design/Impermeable/Misc-materials/Maintenance/Europe/1900-1949/1950-1954/

"Problems de Defense des Cotes Resussite de Echecs de Quelques Ouvrages" 5409GR0003
Dreyfous-Ducas, M., Proceedings of Fifth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Sept., 1954, pp. 495-513. (TC203 .C6)

Translated Title: "Sea-Defense Problems -- Success and Failure of Some Structures."

The author analyzes reasons of success or failure of various sea defense works. Groins and breakwaters built since 1830 in southwest France are discussed. For groins low permeability is desirable, while long groins are undesirable. (Text is not translated.)

Key Words - 1800-1900/1900-1949/1950-1954/Europe/Permeable/Long/Impermeable/

"Les Ouvrages de Defense Contre la Mer Sur la Cote Francaise de L'Ocean Entre la Loire et la Gironde" 5409GR0004
Blondeau, M., and Baste, M., Proceedings of Fifth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Sept., 1954, pp. 514-554. (TC203 .C6)

Translated Title: "Sea-Defence Works of the Atlantic Coast between the Loire and Gironde."

Among the various shore protection structures, groins, their purpose and type of groins found along the coast between Loire and Gironde are discussed. (Text is not translated.)

Key Words - Timber/Concrete/Misc-materials/Adjustable/Field/

"Observations on the Travel of Shore Material Along a Chalk Foreshore" 5409GR0005
Coultas, H. W., Proceedings of Fifth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Sept., 1954, pp. 381-382. Abstract. (TC203 .C6)

Groins are discussed in an abstract of a paper published in 1920 in the Journal of the Institution of Municipal and County

Engineers, an English journal.

Key Words - System/Europe/Concrete/Accretion/Misc-plan/1900-1949/

"On the Coastal Groins" 5411GR0001
Nagai, S., Proceedings of First Conference on Coastal Engineering, JSCE, Nov., 1954

Key Words - Not Annotated/

"Concrete Shore Protection" 5500GR0001
Anonymous, Portland Cement Association, Chicago, Illinois, 1955, pp. 3-31. (Brochure) (V.F. 1244)

An illustrated brochure on the use of concrete foreshore protection structures deals briefly with erosion and its causes, and presents a concise analysis of wave action. Types of seawalls, revetments, groins, and jetties are also discussed with regard to applicability of various sections of the structures to different problems.

Key Words - Concrete/System/Erosion/Structural-design/Permeable/ Geometric-shapes/1900-1949/1950-1954/Single/Impermeable/

"Allgemeine Empfehlungen für den Deutschen Küstenschutz" 5500GR0002

Coastal Commission of North Sea and Baltic Sea, Die Küste, Kiel, West Germany, Vol. 4, 1955, pp. 52-61. (GS457.5 .K97)

Translated Title: "General Recommendations for German Coastal Protection."

Key Words - Not Annotated/

"Hundert Jahre Küstenschutz an der Nordsee" 5500GR0003
Lorenzen, J. M., Die Küste, Kiel, West Germany, Vol. 3, No. 1/2, 1955, pp. 18-32. (GB457.5 .K97)

Translated Title: "Hundred Years of Coastal Protection on the North Sea."

Key Words - Not Annotated/

"What Water Economy Expects from Coastal Research" 5500GR0004
Reineke, H., Wasserwirtschaft-Wassertechnik, Berlin, Vol. 8, 1955, pp. 249-250.

Key Words - Not Annotated/

"Beach Abrasion by Waves - Reflection on Steep Wall Type of Coastal Protective Structures" 5500GR0005
Vollbrecht, K., Wasserwirtschaft-Wassertechnik, Berlin, No. 8, 1955, pp. 251-257, 333-339

Key Words - Not Annotated/

"Origin and Development of Island Protective Works on Norderney" 5500GR0006
Peper, G., Archives Nieders 8, No. 3, 1955-1956, pp. 175-196.

Key Words - Not Annotated

"Surge and Shore Changes on the West Coast of Sylt" 5500GR0007
Lamprecht, H., Proceedings of the Testing Institute of Hannover, Hannover, Germany, No. 8, 1955, pp. 80-136.

Key Words - Not Annotated/

"The Effect of Island Protective Structures on Beach Development in West Part of Norderney" 5500GR0008
Kramer, J., and Homeier, H., Norderney Annual Report, Vol. 6, 1955, pp. 15-38.

Key Words - Not Annotated/

"Helgoland, History of its Origin and Maintenance of its Harbor Relative to Navigation" 5500GR0009
Bahr, M., Yearbook of North Friesian Society 30, 1955, pp. 203-218.

Key Words - Not Annotated/

"The Asphalt Groins at Ocean City, Maryland" 5504GR0001
Williams, R. K., Asphalt Institute Quarterly, Vol. 7, No. 2, Apr., 1955, pp. 6-8.

Photographs illustrate construction procedures, and design criteria for asphalt groins. A subsequent survey of the 33-element groin system, constructed in 1954 at Ocean City, showed that the beach had built up.

Key Words - Asphalt/Structural-design/Const-procedures/1950-1954/ Impermeable/Low/N. Atlantic/

"The Fernandina Beach Groins" 5504GR0002
Woodson, D. D., Asphalt Institute Quarterly, Vol. 7, No. 2, Apr., 1955, p. 8.

Eight asphalt groins on Fernandina Beach, Florida, were constructed in 1953 with wood piling reenforcement. One year later the system had caused a marked buildup of material.

Key Words - Impermeable/Timber/Piling/S. Atlantic/Structural-design/ 1950-1954/Low/Asphalt/

"Stability of Beaches" 5504GR0003
Bruun, P., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 23, No. 1, Apr., 1955, pp. 21-25. (TC330 .Am3)

Groins, seawalls, breakwaters, and artificial nourishment are

discussed. A figure gives in tabulated format the effects of four protective measures under different conditions of the beach.

Key Words - Adjustable/Artificial-fill/Erosion/Accretion/

"Grand Isle, La., Beach Erosion Control Study" 5504GR0004
U. S. Army Corps of Engineers, House Document No. 132, 84th Congress, 1st Session, Apr., 1955.

Key Words - House Document/Not Annotated/

"Fair Haven Beach State Park, N. Y., Beach Erosion Control Study" 5504GR0005
U. S. Army Corps of Engineers, House Document No. 134, 84th Congress, 1st Session, Apr., 1955.

Key Words - House Document/Not Annotated/

"Hamlin Beach State Park, N. Y., Beach Erosion Control Study" 5504GR0006
U. S. Army Corps of Engineers, House Document No. 138, 84th Congress, 1st Session, Apr., 1955.

Key Words - House Document/Not Annotated/

"How to Build a Beach at Economy Prices" 5509GR0001
Anonymous, Engineering News-Record, McGraw-Hill Pub. Co., Vol. 155, No. 10, Sept. 8, 1955, pp. 34-36, 40-41.

The article describes low, impermeable groins, and states that asphalt groins are more economical than comparable timber groins. Design, construction, and success of asphalt groins built on the coast of Maryland is presented and compared with that of timber groins.

Key Words - N. Atlantic/Asphalt/Timber/Economics/Impermeable/Low/Const-procedure/Structural-design/Permeable/Scour/Const-problems/Accretion/System/

"City of Kenosha, Wis., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 273, 84th Congress, 2nd Session, Sept., 1955.

5509GR0002

Key Words - House Document/Not Annotated/

"Maryland's Favorite Beach at Ocean City"
Hopkins, W. C., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 23, No. 2, Oct., 1955, pp. 8-11. (TC330 .Am3)

5510GR0001

A historical review of shore protection structures and their effects at Ocean City is given. In 1954 a 33-element, asphalt groin system was built. Structural and mix designs, costs, and construction procedures of the asphalt groins are presented.

Key Words - Haupt/Timber/Permeable/1900-1949/Accretion/N. Atlantic/ Impermeable/System/1950-1954/Asphalt/1955-1959/Const-procedure/Const-problems/Economics/High/Low/

"Division of Shore Erosion - Ohio"
Kugel, F. O., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 23, No. 2, Oct., 1955, pp. 20-23. (TC330 .Am3)

5510GR0002

Groin construction projects along the Ohio shore of Lake Erie including experimental projects are reviewed. Structural design and costs of construction are given.

Key Words - Great Lakes/1950-1954/Timber/Piling/Steel/Economics/ Experimental/Field/Rubble-mound/Impermeable/System/

"Coastal Development and Coastal Protection"
Bruun, P., Engineering Progress at the University of Florida, Bulletin Series No. 76, Vol. 9, No. 11, Nov., 1955, pp. 7-30. (TC203 .F62v9no11)

5511GR0001

An attempt is made to explain the connection between coastal development and coastal protection. Florida has two problems; the sea, and property owners at the seashore who often build homes too

close to the shoreline. The problems involved in beach erosion are explained in terms of source and loss of materials. Beach profiles, groins, and revetments are discussed.

Key Words - S. Atlantic/System/Structural-design/Field/Timber/ Rubble-mound/Permeable/Impermeable/T-groins/L-groins/ Z-groins/Corner-groins/Misc-plan/Piling/

"Asphalt Groins and Jetties" 5511GR0002
Asphalt Institute, Asphalt Leads the Fight Against Beach Erosion, Information Series, No. 94, Nov., 1955, pp. 1-5. (V.F. 928 11/55)

Presenting a pictoral review of various groin construction sites, this article also gives design specifications, mix design, and construction specifications for asphalt groins.

Key Words - Asphalt/Const-procedure/S. Atlantic/Structural-design/ N. Atlantic/Impermeable/

"The Longitudinal Stability of Beaches" 5511GR0003
Hoyle, J. W., and King, G. T., Journal of the Institution of Municipal Engineers, London, Vol. 82, No. 5, Nov., 1955, pp. 181-191. (GB454 B3H6)

A brief mention is made concerning the application and basic purpose of groins for foreshore stabilization.

Key Words - Accretion/Misc-plan/Theory/

"On the Flow Characteristics in the Vicinity of Groins" 5511GR0004
Shimano, T., Hom-ma, M., and Horikawa, S., Proceedings of the Third Conference on Coastal Engineering in Japan, JSCE, Vol. 3, Nov., 1955, pp. 195-202. (TC203 .C748) (Not Translated)

Key Words - Not Annotated/

"On the Alignment of Coastal Groins" 5511GR0005
Nagai, S., Proceedings of the Second Conference on Coastal Engineering in Japan, JSCE, Nov., 1955, pp. 107- 116. (TC203 .C748) (In Japanese)

Key Words - Not Annotated/

"On the Effects of Groins" 5511GR0006
Shimano, T., Hom-ma, M., and Horikawa, S., Proceedings of the Second Conference on Coastal Engineering in Japan, JSCE, Nov., 1955, pp. 49-56. (TC203 .C748) (In Japanese)

Key Words - Not Annotated/

"Some Ideas on the Problem of Research in Coastal Dynamics and Model Tests of Coastal Protection" 5600GR0001
Bruns, E., Wasserwirtshaft-Wassertechnik, Berlin, No. 12, 1956, pp. 387-390.

Key Words - Not Annotated/

"What Happened to Protection of Our Baltic Sea Coast?" 5600GR0002
Kolp, O., Wasserwirtschaft-Wassertechnik, Berlin, Vol. 6, No. 8, 1956, pp. 229-231.

Key Words - Not Annotated/

"Island Protection on East-Friesian Coast" 5600GR0003
Jansen, T., Hansa, Hamburg, Vol. 93, No. 44/45, 1956, pp. 2108-2110.

Key Words - Not Annotated/

"Aus den Arbeiten des Küstenausschusses Ost" 5600GR0004
Reineke, H., Die Küste, Kiel, West Germany, Vol. 5, 1956, pp. 1-8. (GB457.5 .K97) (Not

Translated)

Translated Title: "Works of the Coastal Commission - East"

Key Words - Not Annotated/

"Flood Protection and Coast Stabilization" 5600GR0005
Leopold, E., Hutte, Berlin, Vol. 3, 1956,
pp. 1076-1082.

Key Words - Not Annotated/

"Suitability of Model Tests in Maritime 5600GR0006
Engineering in Harbors, Seaways, and
Coastal Protection"
Zschiesche, O., Wasserwirtschaft-Wassertechnik,
Berlin, No. 12, 1956, pp. 383-386.

Key Words - Not Annotated/

"Coastal Changes and Coastal Protection of 5600GR0007
the Island Hiddensee"
Reinhard, H., Berlin, 1956.

Key Words - Not Annotated/

"Asphalt Groins in U. S. A." 5600GR0008
Peters, A. G., Baumasch und Bautechnik
3, No. 11, 1956, p. 337.

Key Words - Not Annotated/

"Behavior of Beach Fill at Ocean City, 5602GR0001
New Jersey"
Watts, G. M., U. S. Army Beach Erosion
Board Technical Memorandum, No. 77,
Feb., 1956, 33 pp.

Analysis of beach erosion at Ocean City, New Jersey, led to the conclusion that the most suitable plan of protection was artificial

placement of suitable sand on the shore and extension of seven existing stone groins. A study of the completed project revealed that loss of beach fill exceeded the estimated rate because: (1) fill sediment was finer-grained than the native sand; (2) shifting of inlet channels and bars caused extensive movement of beach material and; (3) the shoreline in the project area advanced relative to the adjacent shoreline to the southwest.

Key Words - Rubble-mound/System/Field/Impermeable/Erosion/
N. Atlantic/Accretion/

"Manitowoc County from Two Rivers to Manitowoc, Wis., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 348, 84th Congress, 2nd Session, Feb., 1956. 5602GR0002

Key Words - House Document/Not Annotated/

"Shore of New Jersey from Sandy Hook to Barnegat Inlet, Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 361, 84th Congress, 2nd Session, Mar., 1956. 5603GR0001

Key Words - House Document/Not Annotated/

"Beach Erosion Control Grand Isle, Louisiana"
Myers, H. B., and Theis, A. R., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 24, No. 1, Apr., 1956, pp. 19-22. (TC330 .Am3) 5604GR0001

A series of fourteen timber groins were built at Grand Isle, Louisiana to control erosion. Erosion was not checked, and following Beach Erosion Board recommendations, hydraulic fill was introduced into the system. Preparation procedures are outlined, quantitative figures on sand loss and gain, and textural characteristics of the sand are given.

Key Words - Texas Gulf/Artificial-fill/System/Short/Long/Timber/ 1950-1954/Impermeable/Erosion/Accretion/

"Oceanside, Ocean Beach, Imperial Beach, and Coronado, San Diego County, Calif., Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 399, 84th Congress, 2nd Session, May, 1956. 5605GR0001

Key Words - House Document/Not Annotated/

"Area 9, East River to New Haven Harbor, Connecticut, Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 395, 84th Congress, 2nd Session, May, 1956. 5605GR0002

Key Words - House Document/Not Annotated/

"Fire Island Inlet to Jones Inlet, Long Island, N. Y., Cooperative Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 411, 84th Congress, 2nd Session, May, 1956. 5605GR0003

Key Words - House Document/Not Annotated/

"Waimea Beach and Hanapepe Bay, Island of Kauai, T. H., Beach Erosion Control Study" U. S. Army Corps of Engineers, House Document No. 432, 84th Congress, 2nd Session, June, 1956. 5606GR0001

Key Words - House Document/Not Annotated/

"Interim Report on Asphalt Groins at Ocean City, Maryland" Anonymous, Beach Erosion Board Interim Report, July, 1956. (V.F. 1890 7/56) 5607GR0001

Study of asphalt structures as shore protection works is a part of the Beach Erosion Board's General Investigation Program to evaluate the structural and functional effectiveness of shore protective structures. The objective of the study of existing asphalt shore structures is to compile information on the structural and functional performance of these structures. A final report will be prepared when sufficient data are compiled.

Key Words - Photographic/System/Field/Impermeable/

"Curved Groynes and Foreshore Defence" 5607GR0002
Rylands, A., Civil Engineering and Public Works Review, London, July, 1956, pp. 769-772. (V.F. 1989)

The author states that alternating straight and curved groins in a system is superior to an exclusively straight groin system for the following reasons: (1) considerable neutralization of wave assault, (2) reduction in backwash scour, (3) stoppage of littoral drift, (4) reduced sensitivity to changes in wind direction, (5) ability to deposit material to leeward, straight onshore, or to windward as required for the formation of a uniformly protective beach.

Key Words - Misc-plan/Low/Timber/Notched/Field/1955-1959/Structural-design/Impermeable/Europe/

"Arrangement of Groins on a Sandy Beach" 5609GR0001
Nagai, S., Journal of Waterways and Harbors Division, ASCE, Vol. 82, No. WW4, Paper 1063, Sept., 1956, 13 pp. (TC305 .J3v.2)

It is an important and difficult problem to arrange groins effectively for protection against erosion by wave action on a sandy shore. This paper presents the relation of groin length, space, and orientation with respect to the shoreline, direction of wave propagation, and breaking point of the breakers. Relationship between wave steepness and sand transport, and some results of experiments concerning special types of groins are also presented.

Key Words - Scour/Erosion/Accretion/Experimental/Misc-plan/Long/Short/Model/Impermeable/Theory/Single/System/Structural-design/

"Timber in the Construction of Sea Defence and River Works" 5609GR0002
Cotton, K. E., Civil Engineering and Public Works Review, London, Sept., 1956, pp. 998-1001. (V.F. 3020)

This article presents the author's practical experience in the use of timber in sea defense and river works, and offers observations concerning merits of timber.

Key Words - Timber/Europe/Misc-plan/Structural-design/Steel/Permeable/Impermeable/

"Impermeable and Permeable Groins" 5700GR0001
Bruun, P., 1957, Coastal Engineering Laboratory, Univ. of Florida, Unpublished Commentary, 3 pp. (TC535 .B4)

Author comments on groin adjustability, ruggedness, and permeability.

Key Words - Permeable/Adjustable/Impermeable/Misc-plan/

"Functions of Groins Fundamental Study on Beach Sediment Affected by Groins (1)" 5700GR0002
Shimano, T., Hom-ma, M., Horikawa, K., Sakou, T., Proceedings of the Fourth Conference on Coastal Engineering in Japan, JSCE, 1957, pp. 111-121. (TC20d .C748)

This study examines the mechanism of beach deformation and provides criteria for the design of a groin. Functions of a groin are related to such factors as the characteristics of waves in the surf zone, sediment motion by waves and littoral currents, and eventual deformation of beach and nearshore topographies.

In building groins, the angle to the shoreline should be directed updrift, and the lengths should be adjusted so the tips will form a natural curve merging with the downcoast shoreline.

Key Words - Scour/Model/Long/Experimental/Impermeable/Erosion/Accretion/

Die Nordöstliche Heide Mecklenburgs 5700GR0003
Kolp, O., Veb Deutscher Verlag der Wissenschaften, Berlin, 1957, 282 pp.

Translated Title: "The North Heath of Mecklenburg"

Key Words - Not Annotated/

"Provisions for Stabilization and Maintenance of Floating Islands of the South Coast of German North Sea ...." 5700GR0004
Jansen, T., and Hansen, W., German Report of Nineteenth Planc, London, 1957.

Key Words - Not Annotated/

"Construction of a Heavy Dune Cover by Asphalt - Basalt Method on the Island of Borkum" 5700GR0005
Braun, W., Bitumen, Heidelburg, 8/9, 1957, pp. 176-182.

Key Words - Not Annotated/

"Uferveränderungen und Küstenschutz auf Sylt" 5700GR0006
Lamprecht, H., Die Küste, Kiel, West Germany Vol. 6, No. 2, 1957, pp. 39-93. (GB457 .K97) (Not Translated)

Translated Title: "Coastal Changes and Coastal Protection on Sylt"

Key Words - Not Annotated/

"Folgerungen aus Untersuchungen über Küstenschutzprobleme auf Sylt" 5700GR0007
Rieder, K., Die Küste, Kiel, West Germany, Vol. 6, No. 1, 1957, pp. 1-2. (GB457.5 .K97) (Not Translated)

Translated Title: "Coastal Changes and Coastal Protection Problems of the Island Sylt"

Key Words - Not Annotated/

"Die Abbruchursachen an der Nordwestküste des Ellenbogens auf Sylt" 5700GR0008
Hundt, C., Die Küste, Kiel, West Germany,
Vol. 6, No. 2, 1957, pp. 3-38.
GB457.5 .K97) (Not Translated)

Translated Title: "Causes of Slides on the Northwest Part of Sylt"

Key Words - Not Annotated/

"Küstenforschungen im Raum Fehmarn-Nordwagrien" 5700GR0009
Magens, C., Die Küste, Kiel, West Germany,
Vol. 6, No. 1, 1957, pp. 4-39.
(GB457.5 .K97) (Not Translated)

Translated Title: "Coastal Researches in the Area of Fehmarn-Nordwagrien."

Key Words - Not Annotated/

"Brandungsuntersuchungen an den Kusten von Fehmarn und Nordwagrien" 5700GR0010
Magens, C., Die Kuste, Kiel, West Germany,
Vol. 6, No. 1, 1957, pp. 40-63.
(GB457.5 K97) (Not Translated)

Translated Title: "Surge Investigations on the Coast of Fehmarn and Nordwagrien"

Key Words - Not Annotated/

"Effects of Coastal Protective Structures on Sylt" 5700GR0011
Lamprecht, H., Wasserwirtschaft, Stuttgart,
Vol. 47, No. 5, 1957.

Key Words - Not Annotated/

"Coastal Protection and Scientific Basis of Research" 5700GR0012
Schmitz, H. P., Wasserwirtschaft-Wassertechnik, Berlin, West Germany, Vol. 7, No. 2, 1957, pp. 64-74.

Key Words - Not Annotated/

"Possibilities and Limits for Application of Asphalt Types of Constructions for Coastal Protection" 5700GR0013
Zischer, F. F., Proceedings of the Testing Institute of Hannover, No. 12, 1957.

Key Words - Not Annotated/

"Artificial Restoration of Beaches with Special Regard for Beach Flushing, Norderney, 1951-52" 5700GR0014
Kramer, J., Annual Report of Research Institute, Norderney, Vol. 9, 1957, pp. 107-139.

Key Words - Not Annotated/

"Protection Works on the Mexican Coast: the Creation of Beaches and Dunes" 5701GR0001
Diaz-Marta, M., The Dock and Harbour Authority, London, Vol. 37, Nos. 435-436, Jan., Feb., 1957, pp. 306-309, 338-340.

A system of four rubble-mound groins was constructed at Vera Cruz, Mexico. Among the various protective structures constructed, these groins helped to stabilize the beach.

Key Words - Rubble-mound/Central America/System/1955-1959/

"Chatham, Mass., Beach Erosion Control Study" 5704GR0001
U. S. Army Corps of Engineers, House Document No. 167, 85th Congress, 1st Session, Apr., 1957.

Key Words - House Document/Not Annotated/

"Photographs of Compo Beach, Westport, Conn. After Groin Construction and Before Fill Placement"
U. S. Army Corps of Engineers, May, 1957, New England Division, Boston, Mass., Unpublished Report. (V.F. 1772 5/17/57 Westport) 5705GR0001

Four 8- by 10-inch oblique aerial photographs show Compo Beach, Westport, Conn. after groin construction, but before fill was placed.

Key Words - Single/Field/Impermeable/Rubble-mound/N. Atlantic/ 1955-1959/Long/Low/Photographic/

"Photographs of Sasco Hill Beach, Fairfield, Conn. After Groin Construction and Before Fill Placement"
U. S. Army Corps of Engineers, May, 1957, New England Division, Boston, Mass., Unpublished Report. (V.F. 1772 5/17/52 Fairfield) 5705GR0002

Three 8- by 10-inch oblique aerial photographs of Sasco Hill Beach, Fairfield, Conn., show groins before fill was placed.

Key Words - Single/Field/Impermeable/Rubble-mound/N. Atlantic/ 1955-1959/Long/Low/Photographic/

"Areas 8 and 11, Saugatuck River to Byram River, Conn., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 174, 85th Congress, 1st Session, May, 1957. 5705GR0003

Key Words - House Document/Not Annotated/

"Santa Cruz County, Calif., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 179, 85th Congress, 1st Session, 5705GR0004

May, 1957.

Key Words - House Document/Not Annotated/

"Delaware Coast from Kitts Hummock to Fenwick Island, Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 216, 85th Congress, 1st Session, July 1957. 5707GR0001

Key Words - House Document/Not Annotated/

"Asphalt Groins - Two-year Report" 5708GR0001
Anonymous, Engineering News-Record, McGraw-Hill Pub. Co., Vol. 159, Aug. 22, 1957, pp. 42-44.

Asphalt groins were inspected 2 years after construction. Inspection showed that the groins had caused accretion of sediment and that during at least six hurricanes and many lesser storms they had held the beach.

Key Words - Asphalt/N. Atlantic/Economics/Low/Impermeable/1950-1954/1955-1959/System/Accretion/Erosion/

"Appendix VI, Humboldt Bay (Buhne Point), Calif., Beach Erosion Control Study" 5709GR0001
U. S. Army Corps of Engineers, House Document No. 282, 85th Congress, 2nd Session, Sept., 1957.

Key Words - House Document/Not Annotated/

"Florida Coastal Problems" 5712GR0001
Bruun, P., Gerritsen, F., and Morgan, w. H., Proceedings of Sixth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Dec., 1957, pp. 463-509. (TC203 .C6)

A short review describes the types of groins used along Florida's

shoreline. The authors believe that the best groin for Florida is either the low, impermeable, nonadjustable groin or the impermeable, adjustable type.

Key Words - Impermeable/S. Atlantic/Permeable/Adjustable/System/ Artificial-fill/Timber/Concrete/Structural-design/

"Some Coastal Engineering Problems in India" 5712GR0002
Joglekar, D. V., Gole, C. V., and Apte, A. S., Proceedings of Sixth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Dec., 1957, pp. 510-519. (TC203 .C6)

A section of coastline on the southern tip of India was subject to increasing amounts of erosion. A breakwater and an 11-element impermeable groin system were constructed as an experiment. Laboratory model experiments were also made. Observation of the structures in field and laboratory led to proposed advantageous construction of protective structures along other parts of shoreline where erosion was eminent.

Key Words - Experimental/Field/Rubble-mound/System/Misc-plan/ Accretion/Asia/Model/Structural-design/Long/Impermeable/ Erosion/Scour/

"The Origin and Stability of Beaches" 5712GR0003
Hoyle, J. W., and King, G. T., Proceedings of Sixth Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Dec., 1957, pp. 281-301. (TC203 .C6)

Compression of wet or "running sand" can be produced by correctly designed groins, resulting in the stabilization of beaches. According to the authors, groins must be impermeable, substantial in construction so that they can withstand the longitudinal thrust of stabilized beach material, and high and long enough so that beach material will not be lost over or around them.

Key Words - Impermeable/Long/High/Theory/

"Palm Beach County from Lake Worth Inlet to South Lake Worth Inlet, Florida, Beach Erosion Control Study" 5712GR0004

U. S. Army Corps of Engineers, House Document No. 342, 85th Congress, 2nd Session, Dec., 1957.

Key Words - House Document/Not Annotated/

"Biological Help in Coastal Protection" 5800GR0001
Bulow, K., Wasserwirtschaft-Wassertechnik, Berlin, Vol. 8, No. 2, pp. 54-63.

Key Words - Not Annotated/

"Schutz und Entwässerung der Niederungsgebiete an der Schleswig-Holsteinischen Ostseekuste" 5800GR0002
Kannenbert, E. G., Die Küste, Kiel, West Germany, Vol. 7, No. 1, 1958/1959, pp. 47-106. (GB457.5 .K97) (Not Translated)

Translated Title: "Protection and Drainage of Depressed Areas of the Schleswig-Holstein Baltic Sea Coast"

Key Words - Not Annotated/

"Dune Protective Works on Sylt" 5800GR0003
Lamprecht, H., Bautechnik, Berlin, Vol. 35, No. 1, 1958, pp. 16-20.

Key Words - Not annotated/

"Basic Coastal Model" 5800GR0004
Anonymous, Hydraulics Research 1957, Department of Scientific and Industrial Research, Her Majesty's Stationery Office, London, 1958, pp. 52-54. (TC158 .G7 G786b)

Experimental study on groins shows: (1) High, impermeable groins closely spaced trapped greatest amount of material; (2) no loss of sand occurred if sand built up to the top of the groins; (3) low,

widely spaced groins are to be preferred, and (4) permeable groins had little influence on longshore transport.

Key Words - System/Transport-normal/Model/High/Impermeable/Low/Misc-plan/Permeable/Rubble-mound/Experimental/Erosion/Accretion/

Water Economy between North Sea and Baltic Sea, 1948-58 — 5800GR0005
Rieder, K., and Suhr, H., Kiel, 1958.

Key Words - Not Annotated/

Manuel of Water Economy — 5800GR0006
Press, H., Hamburg, 1958.

Key Words - Not Annotated/

"Swell and Surge as Basis for Planning and Design in Sea Structures and Coastal Protection" — 5800GR0007
Magens, C., Proceedings of the Testing Institute of Hannover, No. 14, 1958.

Key Words - Not Annotated/

"Thames River to Niantic Bay, Conn., Beach Erosion Control Study" — 5801GR0001
U. S. Army Corps of Engineers, House Document No. 334, 85th Congress, 2nd Session, Jan., 1958.

Key Words - House Document/Not Annotated/

"Berrien County, Michigan, Beach Erosion Control Study" — 5802GR0001
U. S. Army Corps of Engineers, House Document No. 336, 85th Congress, 2nd Session, Feb., 1958.

Key Words - House Document/Not Annotated/

"Shore of New Jersey from Sandy Hook To Barnegat Inlet, Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 332, 85th Congress, 2nd Session, Feb., 1958. 5802GR0002

Key Words - House Document/Not Annotated/

"Feeder Beaches and Groins Restore Presque Isle Peninsula"
Omstead, L. W., and Lynde, G. A., Civil Engineering, ASCE, Vol. 28, No. 3, Mar., 1958, pp. 172-175. 5803GR0001

Since 1819 Presque Isle Peninsula, Pennsylvania, has been subjected to increasing amounts of erosion. A program involving placement of fill, and construction of bulkheads and groins was started in 1955 to restore the peninsula and combat erosion.

Key Words - Erosion/Great Lakes/Artificial-fill/System/Field/ Experimental/Steel/Misc-plan/Concrete/Economics/1955-1959

"South Kingstown and Westerly, R. I., Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 30, 86th Congress, 1st Session, Sept., 1958. 5809GR0001

Key Words - House Document/Not Annotated/

"An Experimental Study on the Effect of Coastal Groins"
Horikawa, K., and Sonu, C., Coastal Engineering in Japan, Committee of Coastal Engineering, JSCE, Vol. 1, Oct., 1958, pp. 59-74. (TC203 .C652) 5810GR0001

This report was not designed to present design formula for groins, but points out that flow patterns in the vicinity of groins are far

more complicated than has generally been realized. Along with analysis of flow patterns, characteristics of sand movement around groins are discussed.

Key Words - Erosion/Scour/Accretion/Impermeable/Permeable/Low/ Adjustable/Misc-plan/System/Experimental/Model/Single/ Theory/

"Summary Statement Concerning Importance of a Groin Design Criterion" 5810GR0002
Wicker, C. F., Seminar on Groins at Princeton, N. J., ASCE Sponsored, Oct., 1958, 2 pp., Unpublished.

At the updrift lip of an inlet or at the updrift side of a submarine canyon, it is desirable to trap and conserve all of the supply of sand. To do this, a groin must be long, high, and impermeable. Writer believes that these are the only situations where such a structure is desirable.

Key Words - Impermeable/Structural-design/Erosion/Accretion/High/ Long/Low/

"Motion of Sand Particles Between Groins" 5812GR0001
Nagai, S., and Kubo, H., Journal of Waterways and Harbors Division, ASCE, Vol. 84, No. WW5, Paper 1876, Dec., 1958, 28 pp.

Experiments on the motion of sand particles between groins were performed in a fixed basin to compare with the results of groins in a movable bed. The comparison proved that both results were in comparatively good agreement. Experimental results were found for beaches without groins, with single groins, with a groin system, with various groin spacing, and different angle of wave incidence.

Key Words - Experimental/Single/System/Theory/Misc-plan/Model/ Impermeable/

"Protecting Our Shore Line" 5812GR0002
Brater, E. F., Consulting Engineer, Vol. 11, No. 6, Dec., 1958, pp. 92-96.

Among various shore protection methods, author briefly discusses

groin systems, maintaining that they should be impermeable. Spacing and length of groins are considered.

Key Words - Great Lakes/Rubble-mound/Timber/Impermeable/Low/Field/ High/Short/Artificial-fill/System/

"Model Investigations of Harbor Inlet Silting" 5900GR0001
Blau, E., Wasserwirtschaft-Wassertechnik, Berlin, Vol. 9, 1959, pp. 244-251.

Key Words - Not Annotated/

"Groins with Asphalt Grout in East Friesian Coast Region" 5900GR0002
Jansen, T., Bitumen, Heidelburg, No. 3, 1959.

Key Words - Not Annotated/

"Littoral-Drift Problem at Shore-Line Harbors" 5900GR0003
Johnson, J. W., Transactions of the American Society of Civil Engineers, Vol. 124, Paper No. 2992, 1959, pp. 525-555.

Structures protecting California's harbors have interrupted the littoral drift. These structures often act as complete barriers causing sediment to be trapped. Examples are Santa Barbara, Camp Pendleton, and Santa Monica.

Key Words - California/Accretion/Field/

"Receding of Shoreline at Cochin by Groynes and a Seawall" 5900GR0004
Anonymous, 1959, Central Water and Power Research Station Poona, Poona, India, Annual Research Memoirs, Ministry of Irrigation and Power, pp. 283-287. (TC158 .I4 I39a)

Effects of a 10-element groin system near Cochin, India during 1956-1957 are discussed.

Key Words - System/Asia/1955-1959/1950-1954/Impermeable/

"Sea Defence Groynes" 5900GR0005
Oliver, A. C., and Richardson, H.,
Timber Development Association, London,
1959.

Key Words - Not Annotated/

Cultivated Land Conservation and Reclamation 5900GR0006
Press, H., Berlin and Hamburg, 1959.

Key Words - Not Annotated/

"Better Jetty for Less Money" 5903GR0001
Reed, T. M., Municipal Construction,
Mar., 1959. (V.F. 19 3/59)

Asphalt-coated, corrugated, metal sheets were used to construct a jetty at Savannah Beach, Georgia. Use in the construction of groins is promoted.

Key Words - Asphalt/Steel/S. Atlantic/1955-1959/Const-procedure/
Economics/

"Coastal Engineering Study at Pompano Beach" 5903GR0002
Bruun, P., Mar., 1959, Unpublished Report
Prepared for the City of Pompano Beach,
Florida, Coastal Engineering Laboratory,
University of Florida, Gainesville.
(TC233.5 .F64)

The coastal protection situation (1959) at Pompano Beach, Florida, including groin structures is discussed.

Key Words - Impermeable/Short/Adjustable/High/Low/Erosion/Accretion/

"Generalities on Coastal Processes and Protection" 5903GR0003
Schijf, J. B., Journal of the Waterways and Harbors Division, ASCE, Vol. 85, No. WW1, Pt. 1, Mar., 1959, pp. 1-12.

The engineering basis of coastal protection is discussed with emphasis on the Netherlands seacoast. The paper supports a shift in the old philosophy of protection by groins and seawalls to a new philosophy of protection by sand fill.

Key Words - System/Low/Terminal/Artificial-fill/Europe/

"Unfinished Business - New Jersey Groin Project Stalled by Winter" 5904GR0001
Anonymous, Asphalt Institute Quarterly, Apr., 1959, pp. 7-8. (V.F. 928 4/59)

Three types of structural designs used in the construction of asphalt groins are presented along with a commentary on construction procedures.

Key Words - Low/Structural-design/Const-procedure/S. Atlantic/N. Atlantic/Impermeable/Asphalt/

"Behavior of Sand-Asphalt Groins at Ocean City, Maryland" 5905GR0001
Jachowski, R. A., U. S. Army Beach Erosion Board Miscellaneous Paper, No. 2-59, Washington, D. C., May, 1959. (BEB M.P. 2-59)

Maryland north from Ocean City to Delaware has had a history of erosion over the past century. In 1954 and 1955 the Maryland State Roads Commission desired to stabilize this shore, and with limited funds available decided to experiment with sand-asphalt construction for a groin system. Construction procedure, the behavior of the beach and groins are discussed; illustrative and photographic coverage included. Subsequent surveys showed that the groins were repeatedly undermined and settled or were destroyed. Net effect of the entire groin system at the end of 3 years was negligible.

Key Words - 1950-1954/1955-1959/Asphalt/Field/System/Low/Impermeable/N. Atlantic/Erosion/Misc-plan/Scour/Accretion/Const-procedure/Structural-design/

"Laboratory Study of the Effect of Groins on the Rate of Littoral Transport: Equipment Development and Initial Tests" 5906GR0001
Savage, R. P., U. S. Army Beach Erosion Board Technical Memorandum, No. 114, June, 1959, 56 pp.

Waves were generated to impinge obliquely on a sand beach in an outdoor wave test basin. Longshore movement of sand due to wave action, with and without groins, was measured. Procedures and equipment for trapping, measuring and transporting entrapped sand to the updrift end of the beach are described. Test results, such as cumulative weight of sand movement relative to test duration, relative weight of sand trapped in different profile zones and physical changes to profile and bottom contours, are graphically presented. Rate of sand movement relative to applied wave energy is compared with values obtained by other investigators. Rates determined from small-scale laboratory data fall below an extrapolated curve derived from data from field tests. No positive conclusions are drawn; further testing is underway.

Key Words - Experimental/Model/System/ERosion/Accretion/Impermeable/

"Shore of New Jersey - Barnegat Inlet to Cape May Canal, Beach Erosion Control Study" 5908GR0001
U. S. Army Corps of Engineers, House Document No. 208, 86th Congress, 1st Session, Aug., 1959.

Key Words - House Document/Not Annotated/

"Shore Between Pemberton Point and Cape Cod Canal, Mass., Beach Erosion Control Study" 5910GR0001
U. S. Army Corps of Engineers, House Document No. 272, 86th Congress, 2nd Session, Oct., 1959.

Key Words - House Document/Not Annotated/

"Coast Erosion and Defence" 6000GR0001
Russell, R. C. H., Department of Scientific and Industrial Research Hydraulics

Research Station, London, Hydraulics Research Paper, No. 3, 1960, 14 pp. (TC1 .G7p No. 3)

Among nine questions and answers on coast erosion and defense, these are especially pertinent to groins: (1) how should the designer decide whether or not groins are desirable in a particular case, and how should he decide on the spacing, length, height, profile, and orientation? (2) what are the relative merits of permeable and impermeable groins? (3) what causes lee side scour, and how should the problem be dealt with by the designer of sea defenses?

Key Words - Model/Experimental/Europe/Accretion/Misc-plan/Low/Short/System/Erosion/Scour/Artificial-fill/Mobbs/Permeable/Impermeable/1960-1964/

"Protection of the West Beach of Sylt Island by Flat Groins" 6000GR0002
Zischer, F. F., Bitumen, Heidelberg, No. 8/9, 1960, p. 190.

Key Words - Not Annotated/

"Wessagussett Beach, Weymouth, Mass." 6002GR0001
U. S. Army Corps of Engineers, House Document No. 334, 86th Congress, 2nd Session, Feb., 1960.

Key Words - House Document/Not Annotated/

"A Contractor Battles the Tides" 6004GR0001
Eastburn, H. C., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 28, No. 1, Apr., 1960, p. 29. (TC330 .Am3)

Repair and extension of groins at Bethany Beach, Delaware, were undertaken by a low-bid company. Construction procedures and cost of construction are presented.

Key Words - N. Atlantic/Artificial-fill/System/Erosion/Timber/Steel/Rubble-mound/Economics/Const-procedure/Maintenance/1955-1959/1960-1964/Impermeable/Accretion/

"Scale Effects in Models with Littoral Sand-Drift" 6008GR0001
Reinalda, R., Proceedings of Seventh Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Aug., 1960, pp. 318-325. (TC203 .C6)

Erosion problems around the Thyboron Channel on the west coast of Denmark were studied in models. Analogs and differences between actual field history and model studies of erosion and accretion due to groin construction are presented.

Key Words - Model/Experimental/Field/Erosion/Accretion/Scour/Const-problems/1900-1949/Europe/Long/1960-1964/

"The Development of Coastal Profiles on a Receding Coast Protected by Groynes" 6008GR0002
Sorensen, T., Proceedings of the Seventh Conference on Coastal Engineering, ASCE, Aug., 1960, Vol. 2, pp. 836-846. (TC203 .C6)

This paper analyzes the longshore sand transport by waves and currents on natural coasts outside the breaker zone. A tentative expression for the transport capacity is established and applied to the problem of the effect of groins on the development of the coast profiles. It is shown that results are consistent with observed development of the Danish North Sea Coast at Thyboron, which has been protected by groins and closely observed for 60 years.

Key Words - Theory/Field/System/Transport-normal/Europe/Erosion/

"Shoreline Advancement by Sea Wall and Groynes at Cochin" 6008GR0003
Hiranandani, M. G., and Gole, C. V., Proceedings of the Seventh Conference on Coastal Engineering, Vol. 2, Aug., 1960, pp. 860-871. (TC203 .C6)

This report on the groins and seawall at Cochin, India, presents the following conclusions: (i) Groins 200 feet long are to be preferred to groins 150 feet long. (ii) Spacing between groins should not exceed three times the groin length. (iii) Heavy stones, used as seawall armor on a core of smaller stones, result in decreased rate of maintenance. (iv) Piles at toe of seawall do not give extra protection

to the seawall. (v) Inclined groins do not commend themselves for adoption on this coast.

Key Words - Rubble-mound/Piling/Permeable/Impermeable/System/Misc-plan/Const-procedure/Erosion/Short/Accretion/1955-1959/Field/Model/

"Coastal Protection Works and Related Problems in Japan" 6008GR0004
Hom-ma, M., and Horikawa, K., Proceedings of the Seventh Conference on Coastal Engineering, Council on Wave Research of the Engineering Foundation, Aug., 1960, pp. 904-930. (TC203 .C6)

This extensive discussion of coastal engineering in Japan includes a survey of the types of protective works, including groins.

Key Words - Asia/Field/Concrete/Short/

"Beach-Rehabilitation by use of Beach Fills and further Plans for the Protection of the Island of Norderney" 6008GR0005
Kramer, J., Proceedings of the Seventh Conference on Coastal Engineering, ASCE, Aug., 1960, Vol. 2, pp. 847-859. (TC203 .C6)

This paper discusses the placement of artificial nourishment on a heavily groined beach on the island of Norderney, Germany. Changes in beach profiles are given following the 1951-1952 filling operation. Also presented is a plan for future fill operations.

Key Words - System/Erosion/Artificial-fill/Field/Europe/1950-1954/

"San Diego County, Calif., Appendix IV, Phase 2, Beach Erosion Control Study" 6009GR0001
U. S. Army Corps of Engineers, House Document No. 456, 86th Congress, 2nd Session, Sept., 1960.

Key Words - House Document/Not Annotated/

"Design and Construction of the Seal Beach Groin" 6010GR0001
Nicol, F. E., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 28, No. 2, Oct., 1960, pp. 24-26. (TC330 .Am3)

Due to increased deterioration of Seal Beach, California, state and federal aid was recommended by the Corps of Engineers. A single groin, deemed the most economical solution, was constructed.

This concise, though comprehensive, article presents the structural design, constructive procedure, and an especially pertinent conclusion enumerating construction and engineering problems.

Key Words - Single/Impermeable/Concrete/Artificial-fill/Structural-design/Erosion/Const-procedure/Accretion/Timber/Piling/Const-problems/California/1955-1959/1960-1964/Field/

"Coastal Protection in Massachusetts" 6010GR0002
MacKinnon, R. B., and Hannon, J. R., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 28, No. 2, Oct., 1960, pp. 37-38. (TC330 .Am3)

Spur groins constructed normal to jetties on the updrift side near the low water line were successful in stopping scour along the jetties. In a short time, the foreshore built out to where the spur was placed. Author points out these groins may not be a solution for all similar instances.

Key Words - Rubble-mound/Erosion/Accretion/Impermeable/Misc-plan/N. Atlantic/Field/1960-1964/Short/Scour/Spur/

"Uber den Einfluss von Strandbuhnen auf die Sandwanderung an Flachkusten" 6100GR0001
Gutsche, H., Mitteilungen des Franzius-Institus fur Grund-un Wasserbav der Technischen Hochschule Hannover, Vol. 20, 1961, pp. 74-211.

Translated Title: "On the Influence of Groins on Sand Movement along Low-Lying Coasts"

Key Words - Not Annotated/

"A Scientific Basis for Design of Groyne Systems" 6100GR0002
Hoyle, J. W., and King, G. T., The Surveyor, and Municipal and County Engineer, London, Vol. 120, 1961, pp. 619-621.

Key Words - Not Annotated/

"Sea Defence Groynes - 4" 6101GR0001
Oliver, A. C., Civil Engineering, London, Vol. 56, No. 654, Jan., 1961, pp. 87-90.

Key Words - Not Annotated/

"Lake Erie Shore Line from the Michigan-Ohio State Line to Marblehead, Ohio, Beach Erosion Control Study" 6101GR0002
U. S. Army Corps of Engineers, House Document No. 63, 87th Congress, 1st Session, Jan., 1961.

Key Words - House Document/Not Annotated/

"Behavior of Beach Fills in New England" 6102GR0001
Perdikis, H. S., Journal of the Waterways and Harbors Division, ASCE, Vol. 89, No. WW1, Paper No. 2744, Feb., 1961.

A study of behavior of fills placed on 10 New England beaches is presented. Quantitative determinations of changes in volumes of the fill, high and low water shoreline positions, and slopes were made. Groins, single and in systems, were built to help retain fill.

Key Words - N. Atlantic/Artificial-fill/Impermeable/Rubble-mound/Erosion/Accretion/Single/System/Field/

"Groins on the Shores of the Great Lakes" 6105GR0001
Lee, C. E., Journal of the Waterways and Harbors Division, ASCE, Vol. 87, No. WW2, Paper 2819, May, 1961, pp. 89-111.

Groins are not a cure-all for shore erosion problems; faulty design or misplacement can create additional problems or increase existing problems. This comprehensive paper summarizes data on existing groins, changes in lake levels, other processes, notes on design of groins for the Great Lakes, and some indication of research and costs.

Key Words - Great Lakes/Permeable/Impermeable/Concrete/S. M. Wood/ Timber/Steel/Piling/Rubble-mound/Misc-plan/Geometric-shapes/System/T-groins/Scour/Economics/Field/1960-1964/ Structural-design/

"Palm Beach County, Florida, from Martin County Line to Lake Worth Inlet and from South Lake Worth Inlet to Broward County Line, Beach Erosion Control Study" 6105GR0002
U. S. Army Corps of Engineers, House Document No. 164, 87th Congress, 1st Session, May, 1961.

Key Words - House Document/Not Annotated/

"New Jersey Coast of Delaware Bay from Cape May Canal to Maurice River, Beach Erosion Control Study" 6106GR0001
U. S. Army Corps of Engineers, House Document No. 196, 87th Congress, 1st Session, June, 1961.

Key Words - House Document/Not Annotated/

"Amelia Island, Florida, Beach Erosion Control Study" 6106GR0002
U. S. Army Corps of Engineers, House Document No. 200, 87th Congress, 1st Session, June, 1961.

Key Words - House Document/Not Annotated/

"Coast Protection -- Groynes" 6106GR0003
Hoyle, J. W., and King, G. T., Journal of the Institution of Municipal Engineers, Vol. 88, No. 6, June, 1961.

Key Words - Not Annotated/

"A Study of Groins and Their Function as Hydraulic Structures" 6107GR0001
Pretious, E. S., and Vollmer, E., Technical

Note No. 35, Department of Civil Engineering, University of British Columbia, Vancouver, Canada, July, 1961. (TC426.B2tn)

In a systematic laboratory model study of groin structures, lengths, crest heights and slopes, shapes and slopes of groin heads, side slopes, ratios of groin spacings to lengths, ratios of crest heights to water depths, angles of inclination to the waterline, and various degrees of permeability of groins were investigated. All results are fully illustrated and qualitative.

Key Words - Experimental/Model/Terminal/System/Scour/Erosion/ Accretional/Shoaling/Structural-design/Single/Misc-plan/ T-groins/Long/Short/Permeable/Impermeable/L-groins/Theory/

"Behavior of Beach Fill and Borrow Area at Prospect Beach, West Haven, Connecticut" 6108GR0001
Vesper, W. H., U. S. Army, Beach Erosion Board Technical Memorandum, No. 127, Aug., 1961, 29 pp.

Comparative survey and sample data are analyzed to determine behavior of beach fill obtained from an offshore borrow source. A groin system and feeder beach were also included in the project. The project has provided a protective beach over a 3-year period equal to or greater than minimum dimensions required. Average annual losses have been about 13,000 cubic yards per year, and the feeder beach has performed satisfactorily. Size and sorting characteristics of the fill material are shown to have been suitable, using Krumbein's method of computed composite curves. Borrow sources, although only 1,000 feet offshore, were suitable for local wave conditions, and shoaling thereof has been limited to silty material. Annual costs have been about $3.00 per linear foot of shore protected. The groins are effective and have probably reduced fill losses to a degree justifying their construction.

Key Words - N. Atlantic/System/Misc-plan/Accretion/Economics/Rubble-mound/Impermeable/Field/Low/Long/1955-1959/

"Groins on the Shores of the Great Lakes" 6111GR0001
Rayner, A. C., and Rector, R. L., Journal of the Waterways and Harbors Division, ASCE, Vol. 87, No. WW4, Nov., 1961, p. 137.

The authors state that use of permeable groins is not warranted along the Great Lakes because of the deficiency of littoral drift along those shorelines. This short article provides insight on groin

costs, length, and percentage of permeable to impermeable groins on the Great Lakes.

Key Words - Permeable/Impermeable/Short/Long/Economics/Great Lakes/ Artificial-fill/1960-1964/

"The Selsey Coast Protection Scheme" 6112GR0001
Duvivier, J., Journal of the Institution of Civil Engineers, London, Vol. 20, Dec., 1961, pp. 481-506. (TC257 .D2)

Because of threatening erosion or inundation or both, a scheme was undertaken to construct protective structures, including groins, on the coast east and west of Selsey Bill, England. This paper gives the history of erosion, trends of littoral transport and currents, sediment supply sources, scheme of protective works, and results after construction.

A new type of articulated groin built with transverse and longitudinal flexibility is discussed, and its satisfactory performance noted. Measures taken to combat erosion beyond the terminal groin are presented.

Key Words - Terminal/Concrete/System/Europe/Piling/Accretion/Erosion/ Field/Timber/1950-1954/1955-1959/1960-1964/Impermeable/ misc-plan/Structural-design/Scour/Maintenance/

"Beach Erosion and Protection Works in Imazu-Sakano Beach" 6112GR0002
Kubo, M., and Iwasa, N., Coastal Engineering in Japan, JSCE, Vol. 4, Dec., 1961, pp. 103-114.

This article presents the design of protective structures including T-groins constructed of concrete hexa-leg blocks at Imazu-Sakano Beach, Japan.

Key Words - Impermeable/Asia/Concrete/T-groins/Transport-normal/ Structural-design/Misc-plan/System/Economics/Geometric-shapes/

"Photographs of Sarasota County, Florida, Showing Groin Installation" 6200GR0001

Budd, W., 1962, Unbound collection. (V.S. 1772)

Photos show a Sarasota County, Florida beach before and after construction of Budd dog-bone groins, 1961-1962.

Key Words - Budd/Photographic/S. Atlantic/Permeable/

"Behavior of Beach Fills in New England" 6200GR0002
Perdikis, H. S., Transactions of the American Society of Civil Engineers, Vol. 127, Part 4, Paper No. 3337, 1962, pp. 292-328.

A study of the behavior of fills placed on 10 New England beaches is presented. Quantitative determinations of changes in volumes of the fill, high and low water line positions, and beach slopes were made. The groins, in systems and singly, were either pre-existing or built to help retain the fill.

Key Words - N. Atlantic/Artificial-fill/Impermeable/Rubble-mound/ Erosion/Accretion/Single/System/Field/

"Groynes as Barriers to Movement of Beach Material" 6200GR0003
Hoyle, J. W., and King, G. T., The Surveyor, and Municipal and County Engineer, London, Vol. 121, 1962, pp. 601-603.

Key Words - Not Annotated/

"Belle Pass to Raccoon Point, Louisiana, Beach Erosion Control Study" 6202GR0001
U. S. Army Corps of Engineers, House Document No. 338, 87th Congress, 2nd Session, Feb., 1962.

Key Words - House Document/Not Annotated/

"Asphalt Groins" 6204GR0001
Asphalt Institute, Asphalt in Hydraulic Structures, 3rd ed., Manual Series No. 12, Apr., 1962, pp. 95-103. (TN853 .A4)

Structural design features and modes of construction are presented.

Key Words - Asphalt/Low/Short/Const-procedure/Structural-design/ Impermeable/

"Use of Concrete for Shore Protection" 6204GR0002
Sellner, E. P., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 30, No. 1, Apr., 1962, pp. 18-24. (TC330 .Am3)

A general discussion of groins is included in this article. Groin design, purpose, spacing and length are discussed. Decision factors as to whether or not to use groins are presented.

Key Words - Impermeable/Permeable/Concrete/Great Lakes/Structural-design/Geometric-shapes/Single/Field/Erosion/Accretion/ 1960-1964/

"Asphalt in Beach Erosion Control Structures" 6204GR0003
Smith, D., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 30, No. 1, Apr., 1962, pp. 31-34.

Hot-mix asphalt concrete specifications for groins are discussed. Examples of a typical cross-section and plan are given. Suggested construction procedures and basic considerations for asphaltic groin design are presented.

Key Words - Asphalt/Low/Short/Const-problems/Misc-plan/Structural-design/N. Atlantic/Const-procedures/1960-1964/Impermeable/

"Coast Protection - Groyne Systems" 6204GR0004
Hoyle, J. W., and King, G. T., Surveyor and Municipal and County Engineer, London, Vol. 121, No. 3647, Apr., 1962, pp. 575-579. (TC535 .H9)

Relationship between high water lines, groin spacing, and profile of a groin system is demonstrated experimentally. The results of this procedure were used in the construction of a groin system on the Norfolk coast, England.

This article suggests that design criteria for groin systems can be determined through experimental analysis. The design of a groin system should be carried out in two operations, that relating to the spacing and location upon the plan, and that relating to the shape and levels of the profile.

Key Words - Experiment/Theory/Field/Europe/System/Permeable/High/Low/Short/Long/Structural-design/Impermeable/Accretion/Erosion/1955-1959/1960-1964/

"Virginia Beach, Virginia, Cooperative Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 382, 87th Congress, 2nd Session, Apr., 1962. 6204GR0005

Key Words - House Document/Not Annotated/

"Shore of Sheffield Lake Community Park, Ohio, Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 414, 87th Congress, 2nd Session, May, 1962. 6205GR0001

Key Words - House Document/Not Annotated/

"Carolina Beach and Vicinity, North Carolina"
U. S. Army Corps of Engineers, House Document No. 418, 87th Congress, 2nd Session, May, 1962. 6205GR0002

Key Words - House Document/Not Annotated/

"Shore of the State of New Hampshire Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 416, 87th Congress, 2nd Session, May, 1962. 6205GR0003

Key Words - House Document/Not Annotated/

"A Model Study of the Behavior of Beaches and Groynes" 6206GR0001
Kemp, P. H., Journal of the Institution of Civil Engineers, London, Vol. 22, 1962, pp. 191-210. (TC535 .K4)

This paper reviews factors which influence the shape of the natural shoreline in the absence of groins. A series of model experiments is then described; three types of impermeable groins were subjected to a cycle of accretion, depletion, and recovery, under the action of waves of different characteristics. Attention is drawn to the effect of the alignment and type of groin on the rate of longshore transport, littoral currents, scour, and shoreline orientation. Each arrangement of the groins is seen to possess characteristic advantages and disadvantages which can influence the choice of groin and its alignment in given circumstances. Within the limitations of the groin experiments it would seem that the shoreline orientation and rate of longshore transport can be varied by modifications to groin type and alignment. Shoreline reorientation can reduce the littoral current and consequently reduce the scour. By an appropriate choice of groin type and alignment, it should be possible to orient the shoreline in such a way that the effects of storm attack are reduced.

Key Words - Experimental/Model/Accretion/ERosion/Transport-normal/ Scour/Structural-design/High/Low/System/Long/Short/ Impermeable/

"Coast of Southern California - Special Interim Report on the Ventura Area, Cooperative Beach Erosion Control Study" 6206GR0002
U. S. Army Corps of Engineers, House Document No. 458, 87th Congress, 2nd Session, June, 1962.

Key Words - House Document/Not Annotated/

"Raritan Bay and Sandy Hook Bay, New Jersey" 6206GR0003
U. S. Army Corps of Engineers, House Document No. 464, 87th Congress, 2nd Session, June, 1962.

Key Words - House Document/Not Annotated/

"The Nearshore Movement of Sand at Durbin" 6207GR0001

Kinmont, A., U. S. Army Beach Erosion Board Bulletin, Vol. 16, July, 1962, pp. 22-23. (BEB Vol. 16)

The impermeability of groins at Durbin, South Africa, have caused sand at their ends to be eroded. Due to an increase of water depth at their ends, the normal gradients of the beach have been disturbed. Instead of accumulating on the southern face of the groin - the littoral transport being northerly - the sand is forming a central spit, while the areas on both sides of the groins are being severely eroded.

Key Words - Africa/Field/Erosion/Accretion/Impermeable/System/ 1950-1954/1955-1959/Scour/

"The Protection and Preservation of the Atlantic Shore Front of the State of New York" 6207GR0002
Anonymous, Final Report, July, 1962, State of New York Temporary State Commission on Protection and Preservation of the Atlantic Shore Front.

Recurring hurricanes and seasonal storms have caused destruction along the Atlantic shoreline of New York State. Shore protection measures, including groin systems, are reviewed.

Key Words - System/Photographic/N. Atlantic/Erosion/Accretion/

"Aerial Photographs, Plum Island, Massachusetts" 6208GR0001
U. S. Army Corps of Engineers, Aug., 1962, New England Division, Unpublished Report. (V.F. 1772 8/62)

Seventeen 8- by 10-inch oblique aerial photographs showing the August 1962 condition of the Plum Island jetty and a four-component rubble-mound groin system.

Key Words - N. Atlantic/Photographic/Field/System/Rubble-mound/ Impermeable/1960-1964/

"San Juan, Puerto Rico, Beach Erosion Control Study" 6209GR0001

U. S. Army Corps of Engineers, House Document No. 575, 87th Congress, 2nd Session, Sept., 1962.

Key Words - House Document/Not Annotated/

"Fort Macon - Atlantic Beach and Vicinity, North Carolina" 6209GR0002
U. S. Army Corps of Engineers, House Document No. 555, 87th Congress, 2nd Session, Sept., 1962.

Key Words - House Document/Not Annotated/

"Clark Point, New Bedford, Massachusetts, Beach Erosion Control Study" 6209GR0003
U. S. Army Corps of Engineers, House Document No. 584, 87th Congress, 2nd Session, Sept., 1962.

Key Words - House Document/Not Annotated/

"Beach Erosion Control Report on Cooperative Study of Virginia and Biscayne Keys, Florida" 6209GR0004
U. S. Army Corps of Engineers, House Document No. 561, 87th Congress, 2nd Session, Sept., 1962.

Key Words - House Document/Not Annotated/

"Sheet Steel Piling for Shore Protection Structures" 6210GR0001
Hickey, R. E., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 30, No. 2, Oct., 1962, pp. 18-22.

Design and examples of shore protection sturctures, including groins, constructed with sheet steel piling are presented. Some structures are built with a combination of materials. For instance, parallel walls of sheet steel piling may be filled with rock and capped with concrete.

Key Words - Steel/Piling/Misc-plan/Concrete/Rubble-mound/Great Lakes/
Structural-design/Impermeable/

"San Gabriel River to Newport Bay, Orange County, California, Appendix V, Phase II, Beach Erosion Control Study"
U. S. Army Corps of Engineers, House Document No. 602, 87th Congress, 2nd Session, Oct., 1962. 6210GR0002

Key Words - House Document/Not Annotated/

Review of Beach Erosion and Storm Tide Conditions in Florida 1961-1962"
Bruun, P., Morgan, W. H., and Purpura, J. A., Engineering Progress at the University of Florida, Vol. 16, No. 11, Tech. Progress Report No. 13, Nov., 1962, Florida Engineering and Industrial Experiment Station, Gainesville, 104 pp. (TC203 .F62 V. 16 no. 11) 6211GR0001

A pictorial review of erosion and Florida beach conditions shows that groins have caused serious downdrift erosion. Examples are cited.

Key Words - Photographic/S. Atlantic/Timber/Impermeable/Permeable/
Erosion/Artificial-fill/System/Field/Rubble-mound/Budd/
Adjustable/Concrete/Piling/High/Low/Accretion/

"An Investigation into the Effectiveness of Various Types of Groynes on Seaford Beach"
Anonymous, Report No. EX218, 1963, Wallingford, Berkshire, England. (TC57 W34r For Official Use Only) 6300GR0001

Key Words - Not Annotated/

"Construction Works for the Protection of the Coasts"
Spataru, A., Studii de Hidraulica, Comitetul de stat al Apelor Institutul de 6300GR0002

Studii si Cercetari Hidrotechnice, Bucuresti, Vol. 5, 1963, p. 226. (TC95.8 15S3 v.5)

Several types of constructions for the protection of the coast are presented with information concerning permeable and impermeable transverse structures. (In Romanian with an English abstract.)

Key Words - Permeable/Impermeable/

"Aerial Photographs of Wallis Sand State Beach, Rye, New Hampshire"
U. S. Army Corps of Engineers, June, 1963, New England Division, Unpublished Reprot. (V.F. 1772 9/12/63)

Six ground photos show construction stages of a stone groin. Three oblique aerial photographs show the completed groin.

Key Words - 1960-1964/Single/Field/Long/High/Rubble-mound/ N. Atlantic/Impermeable/Photographic/

"Emergency Measures to Combat Beach Erosion" 6306GR0002
Bruun, P., and Purpura, J. A., Engineering Progress at the University of Florida, Vol. 17, No. 6, Leaflet No. 158, June, 1963, Florida Engineering and Industrial Experiment Station, Gainesville, 26 pp. (TC203 .F62 v. 17 no. 6)

Among the emergency measures, the repair of groins damaged during storm action is discussed.

Key Words - Scour/ERosion/Maintenance/Artificial-fill/Adjustable/ Rubble-mound/Piling/

"Coastal Engineering Structures" 6307GR0001
Hall, J. V., Jr., U. S. Army Beach Erosion Board Annual Bulletin, Vol. 17, July, 1963, pp. 16-37. (BEB Vol. 17)

This paper describes the physical characteristics of basic coastal engineering structures in general use; the behavior of individual structures and their behavior when grouped as a system. Also

described is a typical example of planning for coastal engineering works.

Groin structures are defined, the different types and their uses discussed; structural design and examples are given.

Key Words - Timber/Concrete/Steel/Rubble-mound/Structural-design/ Low/Permeable/Impermeable/High/Long/Short/Single/System/ N. Atlantic/Field/Accretion/Erosion/Terminal/Texas Gulf/

"Review of German Experience on Coastal Protection by Groins" 6307GR0002
Petersen, M., U. S. Army Beach Erosion Board Annual Bulletin, Vol. 17, July, 1963, pp. 38-54. (BEB Vol. 17)

This report contains sections on the evaluation of German documentation on groins, a chronologic survey of the literature prior to 1960, the effects of groins through experience, and a bibliography on German literature on groins.

Key Words - 1900-1949/1950-1954/1955-1959/1960-1964/Misc-plan/System/ Timber/Piling/Steel/Rubble-mound/Concrete/Asphalt/ Economics/

"Structures for Shore Protection" 6307GR0003
Hall, J. V., Civil Engineering, ASCE, Vol. 33, No. 7, July, 1963, pp. 38-41.

The most widely used and the best solution to the beach erosion problem is the artificially constructed and nourished beach. Groins are the most important structures for enlargement and stabilization of beaches.

Key Words - Permeable/Impermeable/Low/High/System/Artificial-fill/

"Coastal Protection for Florida" 6310GR0001
Bruun, P., and Manohar, M., Engineering Progress at the University of Florida, Bulletin Series No. 113, Vol. 17, No. 8, Aug., 1963, Engineering and Industrial Experiment Station, Gainesville, 56 pp. (TC203 .F62 v. 17)

Extensive coverage is given to protective structures constructed along the Florida coast. Design criteria of groins are discussed including length, spacing, height, and permeability. Charts summarize types of shore protection structures as a function of specific beach conditions.

Key Words - Accretion/Erosion/S. Atlantic/Artificial-fill/System/Permeable/Impermeable/Adjustable/Low/Misc-plan/Europe/Timber/Rubble-mound/Structural-design/Asphalt/T-groins/Scour/Piling/Z-groins/

"Stabilization of Shingle Alluvial Shores by Groins of Full Profile" 6400GR0001
Zhdanov, A. M., U. S. Army Coastal Engineering Research Center Bulletin, Vol. 1, 1964, pp. 32-40. (CERC Bull. Vol. 1)

A formula is presented for determining dimensions in the design of groins. Model tests are correlated with observations in the prototype. A design example is presented.

Key Words - Field/Model/Experimental/Structural-design/Theory/Asia/Short/Impermeable/System/Low/

"Effects of Large Structures on the Ohio Shore of Lake Erie" 6400GR0002
Hartley, R. P., State of Ohio Department of Natural Resources, Division of Geological Survey, Report of Investigations No. 53, 1964, 30 pp. (QE151 .037r No. 53)

Large structures such as breakwaters and jetties which extend into Lake Erie are reviewed. Effects of the structures and their maintenance are given along with good aerial photographic coverage.

Key Words - Photographic/ERosion/Accretion/Maintenance/Great Lakes/

Oceanographical Engineering 6400GR0003
Wiegel, R. L., Prentice-Hall International Series in Theoretical and Applied Mechanics, Fluid Mechanics Series, Prentice-Hall Inc., Englewood Cliffs, N. J., 1964, 532 pp. (GC201 W5)

Part of Chapter 17 in this textbook discusses the use of groins; a good introduction to the subject.

Key Words - Permeable/Impermeable/High/Low/Adjustable/Z-groins/ Corner-groins/T-groins/Structural-design/Asphalt/ Artificial-fill/Misc-plan/Scouring/Theory/

"Proteccao da Costa Contra a Erosao Maritima e Formacae de Praias de Arcia - dois Problemas na Costa de Mocambique" Gomes, N., Fomento, Vol. 2, No. 2, 1964, pp. 73-88. 6400GR0004

Key Words - Not Annotated/

"Stability of Beaches Using Groins" Ishihara, T., and Sawaragi, T., Proceedings of Ninth Conference on Coastal Engineering, ASCE, June, 1964, pp. 299-303. 6406GR0001

The authors conducted a field investigation on the stability of beaches, using groins along the Imazu and Sakano Coasts in Tokushima, Japan. Based on the survey of coastal configuration between groins and on the estimation of the amount of littoral drift in the case of no structure, the storage capacity of permeable and impermeable groins was determined. It was found that the groins have to be designed in types, lengths and intervals so that equal amounts of littoral transport along the coast may be secured. Conclusions are presented.

Key Words - T-groins/Long/Permeable/Impermeable/Accretion/ERosion/ Asia/Field/Misc-plan/Short/Theory/

"Hunting Island Beach, South Carolina" U. S. Army Corps of Engineers, House Document No. 323, 88th Congress, 2nd Session, July, 1964. 6407GR0001

Key Words - House Document/Not Annotated/

"Atlantic City, New Jersey Beach Erosion Control Study" U. S. Army Corps of Engineers, House Docu- 6407GR0002

ment No. 325, 88th Congress, 2nd Session, July, 1964.

Key Words - House Document/Not Annotated/

"Falmouth, Massachusetts" 6407GR0003
U. S. Army Corps of Engineers, House Document No. 326, 88th Congress, 2nd Session, July, 1964.

Key Words - House Document/Not Annotated/

"A Pictorial History of Selected Structures Along the New Jersey Coast" 6410GR0001
Vesper, W. H., and Essick, M. G., U. S. Army Coastal Engineering Research Center Miscellaneous Paper, No. 5-64, Oct., 1964, 99 pp. (CERC M.P. 5-64)

An extensive pictorial history of selected shore protection structures, this publication records relative effectiveness of the various structures, including groins, from 1929 to 1961.

Key Words - N. Atlantic/Haupt/System/Timber/Accretion/ERosion/Impermeable/Low/Long/Short/Maintenance/Rubble-mound/Misc-plan/Steel/Piling/High/Photographic/1900-1949/1960-1964/Single/Concrete/

"Protection des Cotes Contre L'Erosion Maritime et Formation des Plages de Sable" 6410GR0002
Gomes, N., Hoville Blanche, Vol. 19, No. 6, Oct., 1964, pp. 693-705.

Key Words - Not Annotated/

"Coastal Protection Procedures with Reference to Conditions in Florida" 6412GR0001
Bruun, P., Engineering Progress at the University of Florida, Vol. 18, No. 12, Bull. Series No. 118, Dec., 1964, Florida

Engineering and Industrial Experiment Station, Gainesville, 14 pp. (TC203 F62 v. 18 no. 12)

This article presents ordinances which govern shore protection measures for the city of Pompano, Florida. Included are codes for the maintenance and design of groins.

Key Words - Legal/Adjustable/S. Atlantic/Structural-design/Maintenance/

"Groins from Wisconsin on Lake Michigan" 6500GR0001
Essick, M. G., and Berg, D. W., U. S. Army Coastal Engineering Research Center, 2 Vols., 1965, Unpublished Report.

Principally a historical review, report contains photographs, locations, and evaluations of permeable groins located on Lake Michigan in the state of Wisconsin.

Key Words - Permeable/Impermeable/System/Field/Great Lakes/Steel/Piling/Structural-design/Concrete/Photographic/Long/Short/High/Low/Maintenance/Timber/Erosion/Accretion/Rubble-mound/1900-1949/1950-1954/1955-1959/1960-1964/1965-1969/

"Permeable Groins from Illinois on Lake Michigan" 6500GR0002
Essick, M. G., and Berg, D. W., U. S. Army Coastal Engineering Research Center, 2 Vols., 1965, Unpublished Report.

A pictorial-historic review, this report includes locations, oblique aerial photographs, and conditions of permeable groins found along Lake Michigan in Illinois.

Key Words - Permeable/Great Lakes/Concrete/Structural-design/S. M. Wood/Timber/Photographic/Maintenance/Erosion/Accretion/System/Steel/Long/Short/Impermeable/Adjustable/Rubble-mound/Field/Single/1900-1949/1950-1954/1955-1959/1960-1964/1965-1969/

"Permeable and Semipermeable Groins from Ohio on Lake Erie" 6500GR0003
Essick, M. G., and Berg, D. W., U. S. Army

Coastal Engineering Research Center,
2 Vols., 1965, Unpublished Report.

Existing shore protection structures are listed as found on Lake Erie in the state of Ohio. U. S. House Documents give conditions of these structures that include permeable and semipermeable groins. Photographs, location of study sites, and evaluation of groin conditions are given.

Key Words - Field/Accretion/Erosion/Permeable/Timber/Concrete/Piling/Steel/Great Lakes/Rubble-mound/Short/Long/Maintenance/High/Low/S. M. Wood/1900-1949/1950-1954/1955-1959/1960-1964/1965-1969/Structural-design/System/

"Report to the Twenty-First International Navigation Congress" 6500GR0004
Shirdan, L., Twenty-First International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Belgium, Section 2 - Ocean Navigation, Subject 1, 1965, pp. 101-110.
(TC5 .In8r)

Gabions used in the construction of a T-groin on the Mediterranean Sea are briefly discussed. The author concludes that it would be worthwhile to find adequate methods for the design and erection of future gabion-made groins.

Key Words - Misc-materials/T-groins/Asia/Geometric-shapes/Single/

"New Coastal Works at Nahariya (Israel)" 6502GR0001
Fried, I. C. E., The Dock and Harbour Authority, London, Vol. 45, Feb., 1965, pp. 323-326. (TC203 .D637)

A system of T-groins was constructed on the Israeli coastline of the Mediterranean Sea to improve bathing conditions. Design and economics of the project are given.

Key Words - T-groins/Erosion/Rubble-mound/Low/Structural-design/Asia/Economics/Impermeable/System/Misc-plan/

"Westerly, Rhode Island" 6502GR0002

U. S. Army Corps of Engineers, House Document No. 85, 89th Congress, 1st Session, Feb., 1965.

Key Words - House Document/Not Annotated/

"Ocracoke Island, North Carolina" 6503GR0001
U. S. Army Corps of Engineers, House Document No. 109, 89th Congress, 1st Session, Mar., 1965.

Key Words - House Document/Not Annotated/

"Atlantic Coast of Long Island, Fire Island Inlet and Shore Westerly to Jones Inlet, New York" 6503GR0002
U. S. Army Corps of Engineers, House Document No. 115, 89th Congress, 1st Session, Mar., 1965.

Key Words - House Document/Not Annotated/

"Waikiki Beach, Oahu, Hawaii, Beach Erosion Control Study" 6503GR0003
U. S. Army Corps of Engineers, House Document No. 104, 89th Congress, 1st Session, Mar., 1965.

Key Words - House Document/Not Annotated/

"Haleiwa Beach, Oahu, Hawaii, Beach Erosion Control Study" 6503GR0004
U. S. Army Corps of Engineers, House Document No. 107, 89th Congress, 1st Session, Mar., 1965.

Key Words - House Document/Not Annotated/

"Emergency Methods to Combat Beach Erosion" 6504GR0001

Bruun, P., and Purpura, J. A., The Dock and Harbour Authority, London, Vol. 45, No. 534, Apr., 1965, pp. 391-396.

Among emergency measures discussed, the repair procedures of groins damaged during storm action is given.

Key Words - Scour/Erosion/Maintenance/Artificial-fill/Adjustable/ Rubble-mound/Piling/

"Staten Island, Fort Wadsworth to Arthur Kill, New York, Beach Erosion Control Study" 6505GR0001
U. S. Army Corps of Engineers, House Document No. 181, 89th Congress, 1st Session, May, 1965.

Key Words - House Document/Not Annotated/

"Perth Amboy, New Jersey Beach Erosion Control Study" 6505GR0002
U. S. Army Corps of Engineers, House Document No. 186, 89th Congress, 1st Session, May, 1965.

Key Words - House Document/Not Annotated/

"City of Evanston, Illinois, Beach Erosion Control Study" 6505GR0003
U. S. Army Corps of Engineers, House Document No. 159, 89th Congress, 1st Session, May, 1965.

Key Words - House Document/Not Annotated/

"Atlantic Coast of New York City from East Rockaway Inlet to Rockaway Inlet and Jamaica Bay, New York" 6506GR0001
U. S. Army Corps of Engineers, House Document No. 215, 89th Congress, 1st Session, June, 1965.

Key Words - House Document/Not Annotated/

"Duval County, Florida" 6508GR0001
U. S. Army Corps of Engineers, House Document No. 273, 89th Congress, 1st Session, Aug., 1965.

Key Words - House Document/Not Annotated/

"Variations in Groin Design" 6510GR0001
Berg, D. W., and Watts, G. M., Coastal Engineering Santa Barbara Specialty Conference, ASCE, Oct., 1965, pp. 763-797. (TC203 .C9S6)

Considering all types of structures used for shore protection purposes, the groin is probably the most widely used and yet it is perhaps the one structure least understood. Groins or groin systems of a particular design may be found where the intended purpose was achieved; however, it is not uncommon to learn of other cases where a similar design was used and negligible benefits resulted. The purpose of this paper is to point out pertinent features of basic types of groins and to illustrate some of the many variations which have been built in the United States.

Key Words - Impermeable/Concrete/Steel/Geometric-shapes/Timber/Asphalt/Rubble-mound/Misc-materials/Permeable/S. M. Wood/Piling/S. Atlantic/N. Atlantic/California/Great Lakes/Alaska/T-groins/Hawaiian Islands/Texas Gulf/Adjustable/Z-groins/Structural-design/Budd/System/Low/Short/Single/High/Long/Erosion/Notched/Field/Photographic/

"Use of Long Groins as Artificial Headlands" 6510GR0002
Dunham, J. W., Coastal Engineering Santa Barbara Specialty Conference, ASCE, Oct., 1965, pp. 755-762. (TC203 .C9S6)

The construction of short groins to trap fillets of sand along coastal beaches characterized by prevailing littoral transport has become a well known practive in coastal engineering. Less common, but often equally important, is the use of long groins to form artificial headlands which trap sand more or less permanently in artificial pocket beaches. The successful use of this long-groin technique at

three Southern California beaches is described, the need for more research as to the effectiveness of such structures is suggested, and other possible uses of long groins are discussed.

Key Words - Long/California/Field/System/Short/Misc-plan/Before 1950/ 1955-1959/1950-1954/1960-1964/Single/Impermeable/

"Groins and Effects - Minimizing Liabilities" 6510GR0003
Lillivang, O. J., Coastal Engineering Santa Barbara Specialty Conference, ASCE, Oct., 1965 pp. 749-754. (TC203 .C9S6)

Groins produce various effects on different shorelines; design data are sparse, so experience and judgment become important design skills to a greater degree than in most engineering problems. Court decisions are described which, from the engineering standpoint, seem opposite in effect where physical conditions were similar. The conclusion is made that the engineer who undertakes projects including seacoast groins needs legal counsel, special engineering knowledge and experience, and a healthy respect for the continuing acceptability of the client's seacoast groins to neighboring proprietors.

Key Words - Legal/California/Erosion/

"Littoral Processes and the Development of Shorelines" 6510GR0004
Inman, D. L., and Frautschy, J. D., Coastal Engineering Santa Barbara Specialty Conference, ASCE, Oct., 1965, pp. 511-536. (TC203 .C9S6)

Basic principles bearing on the nature of beaches and processes that act to modify them are considered in light of present coastal development demands. A working hypothesis is developed that applies the principle of the conservation of mass to the mechanics of granular-fluid media. This hypothesis appears to have general application to sand transport processes in the littoral zone. Additional research must be done to provide basic information in some critical areas before application can be made with assurance.

Key Words - S. Pacific/Misc-plan/System/Field/Theory/Impermeable/

"Study of Erosion Along Homer Spit and Vicinity, Kachemak Bay, Alaska" 6511GR0001

Gronewald, G. J., and Duncan, W. W.,
Coastal Engineering Santa Barbara
Specialty Conference, ASCE, Oct., 1965,
pp. 573-682. (TC203 .C9S6)

This is a progress report on the Homer Spit Beach Erosion Study. Information is presented regarding the rapid acceleration of the erosion processes due to the subsidence of Homer Spit during the 27 March 1964 earthquake. The effect on existing groins both before and after the quake are discussed. Immediately after the quake, emergency measures were required to prevent wave and high water damage to existing structures on the spit. An evaluation of the effectiveness of these measures is presented along with basic data gathered from the study and some of the problems encountered.

Key Words - Alaska/Timber/System/Accretion/Adjustable/Misc-plan/
Permeable/Impermeable/1965-1969/

"Maritime and Riparian Use of Gabions" 6512GR0001
Anonymous, The Dock and Harbour Authority,
London, Vol. 46, No. 542, Dec., 1965, p.
254.

Describing the various uses of gabions, this article includes a discussion on their usefulness in groin construction. Providing a semi-permeable structure, the use of gabions is especially advantageous where scour may occur on the downdrift side of the groin.

Key Words - Scour/Misc-materials/Structural-design/Misc-plan/High/
Low/1965-1969/Permeable/Geometric-shapes/

"Sea Groins Effectiveness Investigations 6600GR0001
Dyed Sand Tests"
Kolp, O., Beiträge zur Meereskunde,
Deutsche Akademie der Wissenschaften zu
Berlin Institute für Meereskunde, Berlin,
Issue 17-18, 1966, pp. 6-90. (Translation)

Presented is a method for investigation of groin effectiveness which represents progress toward a solution of a controversial problem. Experimental methods in the use of dyed sand are described. The results are presented as examples of changes in submarine relief, changes in current fields, and distribution of dyed sands. The results indicate the correctness of this approach to an investigation of this type.

Key Words - System/Europe/Erosion/Field/Piling/Accretion/Impermeable/

"Coastal Processes" 6606GR0001
Johnson, J. W., and Eagleson, P. S., Estuary and Coastline Hydrodynamics, A. T. Ippen, ed., McGraw-Hill Book Co., Inc., New York, June, 1966, pp. 266-268. (GC20 .I64e)

A general introduction is presented concerning classification and types of groins and their purposes.

Key Words - Permeable/Impermeable/High/Low/Timber/Steel/Concrete/Adjustable/System/Single/

"Shore Protection, Planning and Design" 6606GR0002
U. S. Army Corps of Engineers, Coastal Engineering Research Center Technical Report, No. 4, 3rd ed., June, 1966.

The purpose of groins, their effects, types of groins, design criteria of the different types, and construction considerations are presented in this comprehensive text. Plans and photographic illustrations are included.

Key Words - Accretion/Artificial-fill/Erosion/Scour/Const-procedure/Structural-design/Geometric-shapes/High/Long/Low/Short/Adjustable/Great Lakes/Misc-plan/Notches/Single/System/California/Asphalt/Concrete/Piling/Rubble-mound/Steel/Timber/Impermeable/Permeable/Case/Du-Plat-Taylor/

"Beach Erosion Control Study, St. Johns County, Florida" 6607GR0001
U. S. Army Corps of Engineers, House Document No. 97, 89th Congress, 2nd Session, July, 1966.

Key Words - House Document/Not Annotated/

"Special Study of City of San Diego (Sunset Cliffs), California" 6608GR0001
U. S. Army Corps of Engineers, House Document No. 477, 89th Congress, 2nd Session, Aug., 1966.

Key Words - House Document/Not Annotated/

"Scouring Due to Wave Action at the Toe of Permeable Coastal Structures" 6609GR0001
Toru, S., Proceedings of Tenth Conference on Coastal Engineering, ASCE, Vol. 2, Part 3, Sept., 1966, pp. 1036-1047. (TC203 .C6)

The author investigated scouring at the toe of permeable coastal structures on an experimental basis. He emphasized the influence on the scouring depth as affected by water depth at the toe, slope of seaward face and incident wave characteristics.

Key Words - Permeable/Experimental/Model/Scour/

"Shore Protection on the Coast of Yaizu" 6609GR0002
Seo, G., and Fukuchi, T., Proceedings of Tenth Conference on Coastal Engineering, ASCE, Vol. 2, Part 3, Sept., 1966, pp. 1183-1200. (TC203 .C6)

A 15-element groin system was constructed as a measure of added protection against erosion at Yaizu, Japan. The paper deals mainly with the design of the breakwater structure, but photographs illustrate the groin system.

Key Words - Concrete/Impermeable/High/Short/System/Asia/

"Pinellas County, Florida" 6610GR0001
U. S. Army Corps of Engineers, House Document No. 519, 89th Congress, 2nd Session, Oct., 1966.

Key Words - House Document/Not Annotated/

"Mullet Key, Florida" 6610GR0002
U. S. Army Corps of Engineers, House Document No. 516, 89th Congress, 2nd Session, Oct., 1966.

Key Words - House Document/Not Annotated/

"Variations in Groin Design" 6705GR0001

Berg, D. W., and Watts, G. M., Journal of the Waterways and Harbors Division, ASCE, Vol. 93, No. WW2, Paper 5241, May, 1967, pp. 79-100.

See entry 6510GR0001.

Key Words - S. M. Wood/Adjustable/Budd/Permeable/Impermeable/System/Low/Short/Concrete/Single/T-groins/Structural-design/High/Long/Piling/Steel/Timber/Rubble-mound/Z-groins/Misc-materials/Erosion/Notched/Asphalt/Field/Photographic/N. Atlantic/Great Lakes/California/Hawaiian Islands/S. Atlantic/Texas Gulf/Geometric-shapes/Alaska/

"Sea Defence Works - Groins and Revetments" 6705GR0002
Manohar, M., Journal of the Institution of Engineers, London, Vol. 47, No. 9, Pt. C15, May, 1967, pp. 782-792.

Key Words - Not Annotated/

"Shore Protection Experience in the United States" 6707GR0001
Anonymous, News Letter, American Shore and Beach Preservation Assoc., July, 1967, 4 pp.

A cursory review of coastal protection in the U. S. including the Great Lakes is presented.

Key Words - N. Atlantic/S. Atlantic/Texas Gulf/California/Great Lakes/1900-1949/1950-1954/1955-1959/1960-1964/1965-1969/Field/

"Effect of Particle Size and Distribution on Stability of Artificially Filled Beach, Presque Isle Peninsula, Pennsylvania" 6805GR0001
Berg, D. W., and Duane, D. B., Proceedings of Eleventh Conference on Great Lakes Research, International Assoc. for Great Lakes Research, Apr., 1968, pp. 161-178. (Available as CERC Reprint 1-69)

Coarse fill material was placed between two groins in an area within that zone on Presque Isle Peninsula which had experienced the

greatest amount of erosion. Isometric block diagrams are given in this comprehensive report which show cumulative volume changes within the groin embayment during the period from 1956 to 1968.

Key Words - Artificial-fill/Great Lakes/Erosion/Accretion/System/ 1955-1959/1960-1964/1965-1969/

"Dade County, Florida" 6806GR0001
U. S. Army Corps of Engineers, House Document No. 335, 90th Congress, 2nd Session, June, 1968.

Key Words - House Document/Not Annotated/

"Brevard County, Florida" 6807GR0001
U. S. Army Corps of Engineers, House Document No. 352, 90th Congress, 2nd Session, July, 1968.

Key Words - House Document/Not Annotated/

"The Dynamics of a Coast with a Groyne System" 6809GR0001
Bakker, W. T., Proceedings of Eleventh Conference on Coastal Engineering, ASCE, Vol. 1, Sept., 1968, pp. 492-517.
(TC203 .C6)

A mathematical theory is presented about phenomena which occur when groins are constructed. In this theory the coast is schematized by two lines; one represents the beach, and the other the inshore. Theory is based upon the following: (1) littoral transport is a linear dependent of the angle of wave incidence, and (2) sand transport perpendicular to the coast depends on the steepness of the profile.

It was found that the influence of a groin system is threefold: (1) it reflects short-period beach processes on the adjacent areas, (2) retards erosion, and (3) gives lee-side scour.

Key Words - System/Impermeable/Erosion/Theory/Accretion/Single/Transport-normal/

"The Effect of Groynes on Stable Beaches" 6809GR0002
Price, W. A., and Tomlinson, K. W., Proceedings of Eleventh Conference on Coastal Engineering, ASCE, Vol. 1, 1968, pp. 518-525. (TC203 .C6)

Tests were carried out in a wave basin to study the effect of groins on a beach that was stable for a particular wave climate and a given supply of littoral material. The main result showed that on the part of the beach between H.W. and L.W. level the groins produced no buildup. The only buildup that occurred took place seaward of the impermeable groins. Permeable groins had little effect either inshore or offshore.

Key Words - Permeable/Impermeable/Accretion/Erosion/Experimental/Model/High/Europe/Mobbs/

"Experimental Study of the Hydraulic Behavior of Groyne Systems" 6809GR0003
Barcelo, J. P., Proceedings of Eleventh Conference on Coastal Engineering, ASCE, Vol. 1, Sept., 1968, pp. 526-548. (TC203 .C6)

Results of an experimental study of the hydraulic behavior of groin systems are described. Characteristics of the evolution of beach stretches between groins under action of waves with different obliquity, heights and periods are defined. Results obtained are intended for design of systems of functional groins which secure an adequate partition of the beach in satisfactory hydraulic conditions, and also meeting use requirements, notably from the architectural and recreation standpoints. The author briefly discusses longshore transport, and presents some experimental conclusions on the relations between longshore drift and the characteristics of the waves.

Key Words - Experimental/Model/Theory/Short/Erosion/Accretion/Long/System/Impermeable/

"The Creation of an Artificial Beach in Larvotto Bay -- Monte Carlo Principality of Monaco" 6809GR0004
Tourmen, L., Proceedings of Eleventh Conference on Coastal Engineering, ASCE, Vol. 1, Sept., 1968, pp. 558-569. (TC203 .C6)

Two short groins with breakwaters at their tips in a T-groin fashion were constructed in Larvotto Bay, Monte Carlo. The desired effect - to maintain a widened beach - was attained.

Key Words - Europe/System/Accretion/Concrete/Short/Impermeable/
Misc-plan/1965-1969/T-groins/

"The Terminal Problem in Coast Protection" 6809GR0005
Pallett, N., Proceedings of Eleventh Conference on Coastal Engineering, ASCE, Vol. 1, Sept., 1968, pp. 549-557. (TC203 .C6)

This paper introduces the terminal erosion problem which usually occurs downdrift of coast protection works, an important aspect of coast protection often overlooked. Value of groins in stabilizing the foreshore; use of artificial beach replenishment; and the effect on longshore regime following the construction of a seawall are discussed and illustrated.

Key Words - Terminal/Europe/Accretion/1960-1964/System/Erosion/
Artificial-fill/

"Cliff Drainage and Beach Distribution" 6809GR0006
Fryde, W. T., Proceedings of Eleventh Conference on Coastal Engineering, ASCE, Vol. 1, Sept., 1968, pp. 644-652. (TC203 .C6)

The main supply of material to the Clacton beaches was cut off following the construction of a seawall at the toe of the cliffs along the entire frontage. Supply from littoral drift was small and the only method of preserving the beaches was a good system of groins and the occasional placement of artificial fill.

Key Words - Europe/Concrete/Timber/1900-1949/Impermeable/Erosion/
Misc-plan/Structural-design/Accretion/System/
Artificial-fill/

"The Atlantic Coast of Long Island" 6809GR0007
Panuzio, F. L., Proceedings of Eleventh Conference on Coastal Engineering, ASCE, Vol. 2, Sept., 1968, pp. 1222-1241. (TC203 .C6)

This paper presents history, problems, construction and current results concerning critical condition of shore erosion, unstable inlets, and coastal inundation along the Long Island coast. Groin construction and resultant effects are discussed.

Key Words - N. Atlantic/Accretion/Erosion/System/High/Artificial-fill/Rubble-mound/Impermeable/1965-1969/

"Dubai Creek Entrance" 6809GR0008
Ridehalgh, H., Proceedings of Eleventh Conference on Coastal Engineering, ASCE, Vol. 2, Sept., 1968, pp. 1258-1266. (TC203 .C6)

This paper describes works to improve and stabilize the Dubai Creek entrance located on the Arabian Gulf Coast. As part of the project a groin (jetty) was constructed to protect the entrance and to encourage accretion. Maps show accretion as the different phases of the project are completed.

Key Words - Asia/Steel/Piling/Accretion/Single/Impermeable/

"A Mathematical Theory about Sand Waves and Its Application on the Dutch Wadden Isle of Vlieland" 6810GR0001
Bakker, W. T., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 36, No. 2, Oct., 1968, pp. 5-14.

A mathematical theory for predicting sand wave formation was tested in the field, and showed that groins totally reflect the sand wave. The amplitude of the accretion and erosion at the spot of the first groin becomes twice the accretion and erosion where no groins had been constructed.

Key Words - Theory/Field/Impermeable/Erosion/Accretion/1966-1969/

"Report to the Twenty-second International Navigation Congress" 6900GR0001
Bijker, E. W., and Svasek, J. N., Twenty-second International Navigation Congress, Permanent International Association of Navigation Congresses, Sec. II, 1969, pp. 181-202. (TC5 .InBr)

This is an extensive research paper covering such aspects as theoretical and statistical analysis of longshore transport behavior of sediment movement, sediment balances, and determination of wave and current scale models. The influence of morphological mechanisms is outlined. Though groins are not explicitly discussed, structures are discussed which act similar to groins.

Key Words - Europe/Model/Experimental/Theory/

"Beach Erosion and Coastal Development in the Canterbury Bight" 6900GR0002
Kirk, R. M., New Zealand Geographer, Christchurch, New Zealand, Vol. 25, 1969.

Key Words - Not Annotated/

"Report to the Twenty-second International Navigation Congress" 6900GR0003
Féve, M., Twenty-second International Navigation Congress, Permanent International Association of Navigation Congresses, Brussels, Belgium, Section 2 - Ocean Navigation, Subject 4, 1969, pp. 63-109. (TC5 .In8r)

Key Words - Not Annotated/

"Report to the Twenty-second International Navigation Congress" 6900GR0004

Abecasis, F., Castanho, J., Matias, M. F., Twenty-second International Navigation Congress Permanent International Association of Navigation Congresses, Brussels, Section 2 - Ocean Navigation, Subject 4, 1969, pp. 203-242. (TC5 .IN8r)

A groin system was built along sand-spits to reinforce the spits and to check their end growth. Initially, artificial-fill was introduced into the system. The effects are presented in this paper.

Key Words - Africa/Europe/System/Artificial-fill/Erosion/Accretion/1960-1964/1965-1969/Impermeable/

"Beach Erosion Control in New England" 6910GR0001
Wentworth, C. E., Shore and Beach, American Shore and Beach Preservation Assoc., Vol. 37, No. 2, Oct., 1969, pp. 24-30.

An improvement plan consisting of groin construction and sand fill is outlined for Plum Island, Massachusetts.

Key Words - System/N. Atlantic/Artificial-fill/

"Colored-sand Tests with Luminescent Sand Groin Fields" 7000GR0001
Kolp, O., Petermanns Geographische Mitteilungen, Vol. 114, 1970. Translated. (GB454 .B3 K29)

The objectives of this investigation were: (1) the exploration of an approach that could be followed in later studies and which would be centered around the execution of colored-sand experiments; (2) to give a zonal breakdown of relief, flow field, sediment movement, and colored-sand distribution, and their modification by groins on various charts, and (3) to evaluate the effectiveness of various types of groins and to compare the hydrographic conditions existing in the shore areas of sections of coast with and without groins.

Key Words - 1960-1964/1965-1969/Erosion/Accretion/Europe/ Experimental/Scour/Piling/Impermeable/

"Coastal Defence Works" 7000GR0002
Abecasis, F., Laboratório Nacional de Engenharia Civil, Memoria No. 362, 1970, pp. 36-40 (TC158 .P6 P853m)

An extensive groin system built along a spit was designed not only to reinforce the spit, but also to stop its end growth. Initially, the inter-groin spaces were artificially filled.

Key Words - Africa/System/Impermeable/

'Model Studies in Situ Observations" 7000GR0003
Castanho, J., Laboratorio Nacional de Engenharia Civil, Memoria No. 362, 1970, pp. 21-28. (TC158 .P6 P853m)

Laboratory model studies followed extensive field investigations of coastal areas with erosion problems. After these studies were completed, effective measures, including groin construction, were applied.

Key Words - Europe/System/Model/Experimental/Impermeable/

"The History of the Dutch Coast in the Last Century" 7009GR0001
Bakker, W. T., and Joustra, D. Sj.,
Proceedings of the Twelfth Coastal Engineering Conference, ASCE, Vol. 2, Sept., 1970, pp. 709-728. (TC203 .C6)

An investigation of the influence of groins concluded that the erosion of areas with groins was much less than erosion of adjacent areas. This effect is due partly to lee-side scour, but mainly to decreased erosion in the protected area.

Key Words - Scour/Europe/Field/Rubble-mound/1800-1900/1900-1949/1950-1954/1955-1959/1960-1964/Erosion/Accretion/System/Impermeable/

"Some Sand Transport Phenomena on Coasts with Bars" 7009GR0002
Dyhr-Nielsen, M., and Sorensen, T.,
Proceedings of the Twelfth Coastal Engineering Conference, ASCE, Vol. 2, Sept., 1970, pp. 855-866. (TC203 .C6)

Effects of a single groin and a groin system located on the Danish west coast were investigated by field investigation and model tests.

Key Words - Europe/1900-1949/1950-1954/1955-1959/Single/System/Impermeable/Model/Field/Experimental/Erosion/1965-1969/Accretion/Structural-design/

"Experimental Study of the Hydraulic Behavior of Inclined Groyne Systems" 7009GR0003
Barcelo, J. P., Proceedings of the Twelfth Coastal Engineering Conference, ASCE, Vol. 2, Sept., 1970, pp. 1021-1040. (TC203 .C6)

This paper presents the results of an experimental study on the behavior of inclined groins and a short discussion on the improvement of groin systems. It supplements a paper presented at the Eleventh Coastal Engineering Conference (London, 1968). In the present paper both studies are applied to the design of a groin system located to the south of the Tagus estuary (near Lisbon), where serious erosion has taken place.

Key Words - Transport-normal/System/Misc-plan/Accretion/Erosion/ T-groins/Europe/Experimental/1900-1949/1955-1959/1960-1964/1965-1969/Impermeable/

"Land Reclamation and Groin-Building in the Tidal Flats" 7009GR0004
Erchinger, H. F., Proceedings of the Twelfth Coastal Engineering Conference, ASCE, Vol. 2, Sept., 1970, pp. 1041-1052. (TC203 .C6)

Development of new groin designs and groin construction on tidal flats on the North Sea coast of Germany are described. Of interest is the use of polyethylene in groin construction.

Key Words - Europe/Misc-materials/Timber/Concrete/Impermeable/ Structural-design/Rubble-mound/

"The Effect of Groynes on Eroded Beaches" 7009GR0005
Price, W. A., and Tomlinson, K. W., Proceedings of the Twelfth Coastal Engineering Conference, ASCE, Vol. 2, Sept., 1970, pp. 1053-1059. (TC203 .C6)

Effect of impermeable groins on an eroded beach was studied in a laboratory. A beach was allowed to reach equilibrium for a particular wave climate and supply of littoral material. The foreshore was then manually eroded, and the beach allowed to return to equilibrium with and without groins. It was found that the presence of groins increased the rate of accretion but did not significantly build up the inshore beach beyond the stable levels. Bed levels seaward of the groins were increased.

Key Words - Impermeable/Accretion/Erosion/Experimental/System/Europe/

"Characteristics of Shingle Beaches: the Solution to some Practical Problems" 7009GR0006
Wood, A. M. M., Proceedings of the Twelfth Coastal Engineering Conference, ASCE, Vol. 2, Sept., 1970, pp. 1059-1075. (TC203 .C6)

Shingle beaches differ from sand beaches mainly in the mode of transport of the material and in the permeability of the beach. The typical beach forms are in consequence different and the typical problems of beach stabilization require different solutions.

The mechanism of littoral transport of shingle is controlled predominantly by the action of the breaking wave; on a groined beach a simple theory is advanced to relate transport to groin length and spacing.

Key Words - System/High/Theory/Field/Misc-plan/Long/Piling/ Steel/Concrete/Timber/Europe/

"Variation of Topography of Sea-Bed Caused by the Construction of Breakwaters" 7009GR0007
Sato, S., and Irie, I., Proceedings of the Twelfth Coastal Engineering Conference, ASCE, Sept., 1970, pp. 1301-1319. (TC203 .C6)

Changes of the topography of sea-bed caused by the construction of jetties and breakwaters are discussed on the basis of charts of several Japanese ports and the results of model tests.

Key Words - Asia/Field/Model/Experimental/

"The Dynamics of a Coast with a Groyne System" 7009GR0008
Bakker, W. T., Breteler, E. H. J. K., Roos, A., Proceedings of the Twelfth Coastal Engineering Conference, ASCE, Vol. 2, Sept., 1970, pp. 1001-1020. (TC203 .C6)

Mathematical coastal model is schematized by a beach line and an inshore line (two-line theory). Two aspects of the effects of a groin system are covered: (1) Prevention of littoral transport in area between shoreline and groin head, and (2) formation of a sheltered area at lee-side of groin, caused by diffraction.

Key Words - Theory/System/Model/Accretion/Erosion/Impermeable/

"Beach Behavior, North Shore, Long Island Sound" 7011GR0001
McCabe, R. A., Journal of Waterways, Harbors and Coastal Engineering Division, ASCE, Vol. 96, No. WW4, Paper No. 7679, Nov., 1970, pp. 781-794.

A groin system constructed and evaluated on White Sand Beach has shown: (1) necessary depth of the updrift flank of a groin depends on minimum sand cover on that side of the groin, and can be independent of the downdrift depth; (2) maximum width of the resulting stable beach is limited by capacity of a shorter groin at the end and the amount of sand available; (3) groin construction does not cause recession of an adjacent beach if that beach was already in its natural orientation, and (4) a groin is filled to capacity when it spills sand between the beach toe and the limit of normal wave uprush - in this study above about 2 feet higher than M.H.W.

Key Words - N. Atlantic/Rubble-mound/Structural-design/Misc-plan/ System/

"Experiment in Shore Protection" 7105GR0001
Riese, R. C., The Military Engineer, Society of American Military Engineers, Vol. 63, No. 413, May-June, 1971, pp. 181-182.

Lt. Colonel Riese from the Los Angeles District, U. S. Army Corps of Engineers, has outlined the Coastal Engineering Research Center's experimental groin project at Point Mugu, California. The project is designed to determine the influence, under different conditions of height, length, and permeability, the quantitative movement of sand over, around, and through a groin.

Key Words - Concrete/Long/High/Impermeable/Permeable/Adjustable/ Short/Low/Experimental/Field/Single/1970-1974/ California/

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1970-1974

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Beach Dynamics under Groin Influence

Accretion
Artificial-fill
Erosion
Scour
Shoaling
Transport-normal

Construction Data

Const-problems
Const-procedure
Economics
Maintenance
Structural-design

Construction and Survey Dates

1800-1900
1900-1949
1950-1954
1955-1959
1960-1964
1965-1969
1970-1974

Dimensions

Geometric-shapes
High
Long
Low
Short

Groin Types and Design

Adjustable
Corner-groins
L-groins
Misc-plan
Notched
Single
Spur
System
Terminal
T-groins
Z-groins

Location

Africa
Alaska
Asia
Australia
California
Central America
Europe
Great Lakes
Hawaiian Islands
N. Atlantic
N. Pacific
S. Atlantic
Texas Gulf

Materials

Asphalt
Concrete
Misc-materials
Piling
Rubble-mound
Steel
Timber

Miscellaneous

House Document	Not Annotated
Legal	Patent

Permeability

Impermeable	Permeable

Trade Names

Budd	Haupt	S. M. Wood
Case	Milliken	Wosenitz
Du-Plat-Taylor	Mobbs	

Type of Investigation

Experimental	Model	Theory
Field	Photographic	

DEFINITIONS OF KEY WORDS

Accretion: Artificial aggradation where a buildup of the beach occurs by an act of man; in this case by groin construction.

Adjustable: Groins in which height and permeability may be altered.

Africa: Refers to the shoreline of Africa.

Alaska: Refers to the shoreline of Alaska.

Artificial-fill: The process of replenishing a beach by artificial means.

Asia: Refers to any shoreline of the Asian Continent, Japan, Indian Subcontinent, and the eastern shore of the Mediterranean Sea.

Asphalt: Denotes that the groins are built in part or wholly of asphalt.

Australia: Refers to the shoreline of Australia.

Budd: Groin of Budd design.

California: Refers to the shoreline of California.

Case: Groin of Case design.

Central America: Refers to the shores of Central America.

Concrete: Denotes that the groins are built in part or wholly of concrete.

Const-problems: Any problems encountered during groin construction or as a result of faulty construction.

Const-procedure: Construction process and method.

Corner-groins: A type of groin which is built on the line that bisects the angle between the beach and a groin.

Du-Plat-Taylor: Groins of Du-Plat-Taylor design.

Economics: Actual, appropriated, or projected costs of groin construction and maintenance.

Erosion: Refers to shore erosion prior to or as a result of groin construction.

Europe: Refers to the shoreline of all European countries bordering the Atlantic Ocean, North Sea, Baltic Sea, and northern shore of the Mediterranean Sea.

Experimental: Reports which discuss experimental studies on groins either in the field or laboratory.

Field: Actual in-the-field studies as opposed to laboratory studies.

Geometric-shapes: Any material used to construct a groin or a component section of a groin that has geometric regularity, e.g. cellular groin, tetrapods.

Great Lakes: Refers to the shoreline of the Great Lakes.

Haupt: Groin of Haupt design.

Hawaiian Islands: Refers to the shores of the Hawaiian Islands.

High: Groins which are of sufficient height as to impede the passage of littoral drift and overtopping of waves at high tide.

House Document: Refers to U. S. Congress House of Representatives' Reports which contain pertinent data on groins.

Impermeable: Groins which prevent littoral drift from passing through the structure.

Legal: Any legal aspects concerning the construction of groins.

Long: A groin whose length extends beyond the breaker zone.

Low: Groins which do not exceed high tide level, and which allow passage of appreciable quantities of littoral drift by overtopping waves.

L-groins: Groins built in the shape of an "L".

Maintenance: Repair or additional construction of groins.

Milliken: Groin of Milliken design.

Misc-materials: Materials that groins may be constructed of other than the materials listed in the Key Word List.

Misc-plan: A plan view or description of the plan view of the alignment of a single groin or of a groin system with the beach, and the spacing of groins in a system.

Mobbs: Groin of Mobbs design.

Model: Pertains to laboratory investigations of groins by model studies.

Not Annotated: Articles which have not been annotated.

Notched: Groin with the entire length notched at the top providing increased permeability.

N. Atlantic: Refers to the shoreline of the United States from Maine to the Virginia-North Carolina state line.

N. Pacific: The shoreline of northwestern North America from Alaska south to the Oregon-California state line.

Patent: Articles which present groin patents.

Permeable: Groins which (have openings through the structure of sufficient size to) permit passage of appreciable quantities of littoral drift.

Photographic: Articles which present extensive photographic coverage of groins.

Piling: Denotes that the groin is built in part by piles.

Rubble-mound: Groins constructed in part or wholly of stone.

Scour: Removal of underwater material by waves and currents at the base or toe of a groin.

Shoaling: Deposition of underwater material in the vicinity of a groin as a result of decrease in the efficiency of wave and current capacity as caused by groins.

Short: A groin whose length does not extend beyond the breaker zone.

Single: Refers to a single groin.

Spur: A groin-type structure connected to the flank of a groin and normal to it.

Steel: Refers to groins constructed in part or totally of steel.

Structural-design: Design of a groin or system of groins.

System: A series of groins acting together to protect a long section of shoreline.

S. Atlantic: Refers to the shoreline of the United States from the Virginia-North Carolina state line to the tip of the Florida peninsula.

S. M. Wood: Groin of Sydney M. Wood design.

Terminal: The last groin on the updrift end of a groin system.

Texas Gulf: Refers to the shoreline of the Gulf of Mexico from the tip of the Florida peninsula to the Yucatan Peninsula.

Theory: Refers to articles presenting groin designs based upon mathematical formulae, model studies, and personal experience.

Timber: Groins constructed in part or wholly of wood products.

Transport-normal: Movement of beach and near shore material in a vector direction approximately normal to the shoreline.

T-groins: Groins built in the shape of a "T", ie. a groin with a breakwater at its seaward end.

Wosenitz: Groin of Wosenitz design.

Z-groins: A type of groin with one or more marked angular directional changes along its length as seen in plan view.

1800-1900
1900-1949
1950-1954
1955-1959 Inclusive dates denoting construction and survey dates
1960-1964 of groin projects.
1965-1969
1970-1974

KEY WORD INDEX

ABBRUCH
NA - [ABBRUCH] UND SCHUTZ DER STEILUFER AN DER OSTSEEKUSTE 5200GR0003
ABBRUCHSERSCHEINUN
NA - GUTACHTLICHE STELLUNGNAHME ZU DEN UNTERSUCHUNGEN UBER DIE URSACHEN DER [ABBRUCHSERSCHEINUNGEN] AM WEST UND NORD WESTSTRAND DER INSEL NORDERNEY 5200GR0006
NA - DIE URSACHEN DER [ABBRUCHSERSCHEINUNGEN] AN WEST UND NORDWESTSTRAND DER INSEL NORDERNEY 5200GR0005
ABBRUCHURSACHEN
NA - DIE [ABBRUCHURSACHEN] AN DER NORDWESTKUSTE DES ELLENBOGENS AUF SYLT 5700GR0008
ABRASION
NA - BEACH [ABRASION] BY WAVES - REFLECTION ON STEEP WALL TYPE OF COASTAL PROTECTIVE STRUCTURES 5500GR0005
ACCRETION
NA - CAUSES OF COAST EROSION AND [ACCRETION] 2600GR0001
ADJUSTABLE
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UNCLASSIFIED
Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY (Corporate author)	2a. REPORT SECURITY CLASSIFICATION
Coastal Engineering Research Center (CERC) 5201 Little Falls Road, N.W. Washington, D. C. 20016	UNCLASSIFIED
	2b. GROUP

3. REPORT TITLE

GROINS: AN ANNOTATED BIBLIOGRAPHY

4. DESCRIPTIVE NOTES (Type of report and inclusive dates)
Bibliography with indexes.

5. AUTHOR(S) (First name, middle initial, last name)
James H. Balsillie
Richard O. Bruno

6. REPORT DATE	7a. TOTAL NO. OF PAGES	7b. NO. OF REFS
April 1972	249	463

8a. CONTRACT OR GRANT NO.	9a. ORIGINATOR'S REPORT NUMBER(S)
b. PROJECT NO.	Miscellaneous Paper 1-72
c.	9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report)
d.	

10. DISTRIBUTION STATEMENT

Approved for public release; distribution unlimited

11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY

13. ABSTRACT

A groin is a shore protective structure built (usually perpendicular to the shore) to trap sedimentary material or to retard erosion of the shore. Of all the shore protective structures used by coastal engineers, the groin is the most difficult to design - functionally and structurally. Because this complexity of design was not recognized until recently, many early groin installations were failures. CERC supports a continuing research program devoted to gaining a better understanding of groins. This bibliography evolved from the groin research program.

About 460 articles published since 1900 on groins and groin-type structures are presented in this bibliography. Annotations accompany each bibliographic entry where possible. Indexes of authors, titles, and subjects are included to aid the researcher. Unavailable literature such as foreign articles, although not annotated, are included as entries in both the annotated section and the indexes.

DD FORM 1 NOV 65 1473 REPLACES DD FORM 1473, 1 JAN 64, WHICH IS OBSOLETE FOR ARMY USE.

UNCLASSIFIED
Security Classification

14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
Groins						
Shore protection						
Bibliography						

U. S. ARMY COASTAL ENGRG RESEARCH CENTER, CE
WASHINGTON, D. C. 20016

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